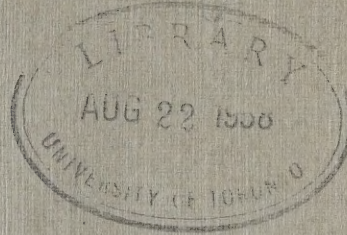


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COPY FOR MR. J. ALLAN ROSS



HYDRO-ELECTRIC INQUIRY COMMISSION

## GENERAL REPORT

THE ONTARIO POWER COMPANY OF NIAGARA FALLS

JOSEPH H. W. BOWER  
SECRETARY





















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The Ontario Power Company of Niagara Falls

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The Ontario Power Company of Niagara Falls

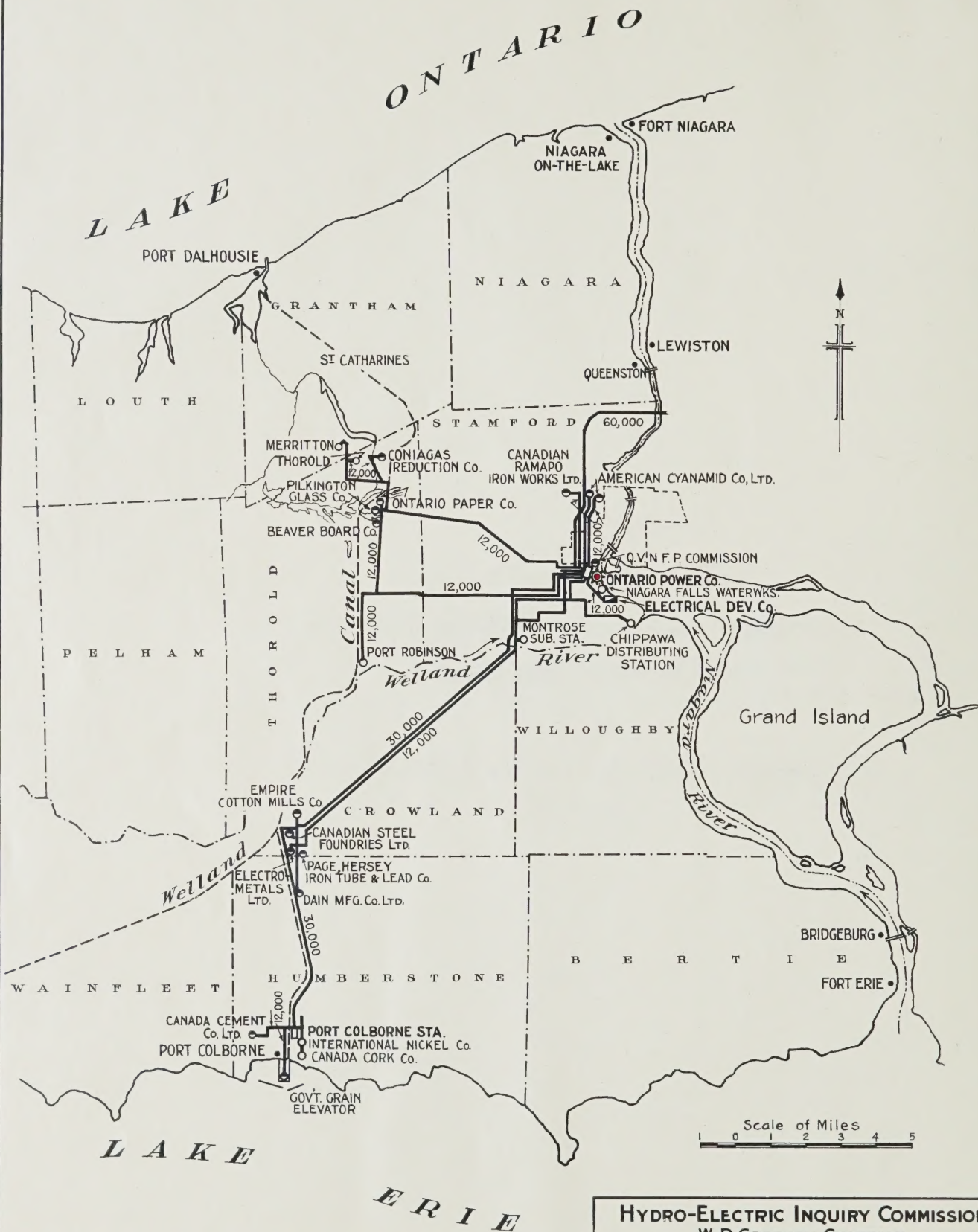
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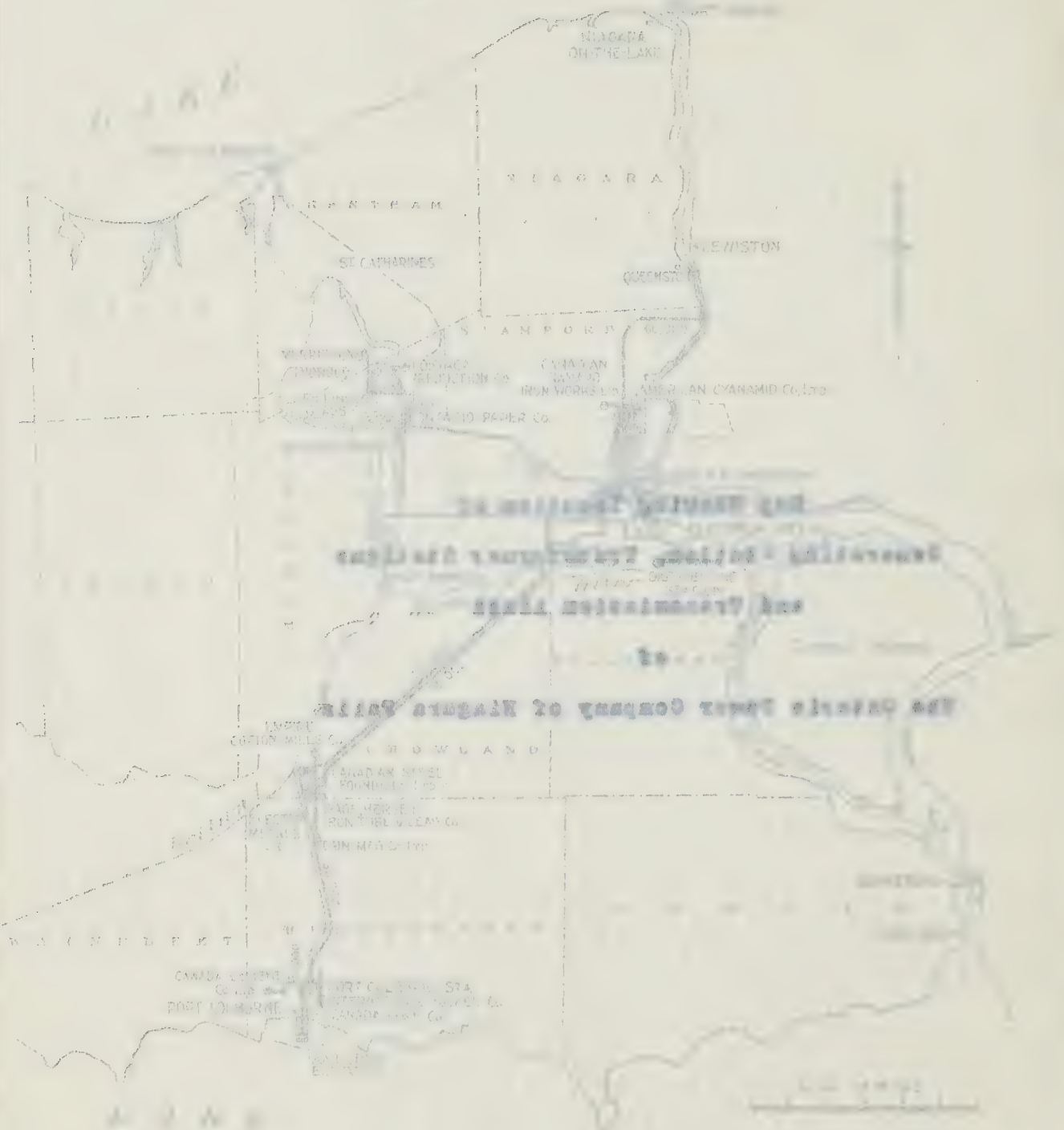
- \* GENERATING STATION  
 □ HIGH TENSION TRANSFORMER STATIONS  
 ○ LOW TENSION " " OWNED BY O.P. Co.  
 ● LOW TENSION " " OWNED BY CONSUMER  
 ■ HIGH TENSION " " OWNED BY ELECTRICAL DEV. Co.  
 — TRANSMISSION LINES AND VOLTAGE

**HYDRO-ELECTRIC INQUIRY COMMISSION**  
 W. D. GREGORY, CHAIRMAN  
**ECONOMICS OF H. E. P. C. DISTRIBUTION SYSTEMS**  
**THE ONTARIO POWER COMPANY OF NIAGARA FALLS**  
 (INCLUDING THE ONTARIO TRANSMISSION CO., LIMITED)  
**MAP SHOWING LOCATION OF**  
**GENERATING STATION, TRANSFORMER STATIONS**  
**AND TRANSMISSION LINES**  
 Toronto, May 14th., 1923. Made by *gab*, Checked by *L.H.*  
**WALTER J. FRANCIS & COMPANY**  
 CONSULTING ENGINEERS



of  
The Ontario Power Company of Niagara Falls

# ONTARIO



- ① Great Lakes
- ② St. Lawrence River
- ③ Lake Ontario
- ④ Lake Erie
- ⑤ Lake Huron
- ⑥ Lake Michigan

**Hydro-Electric Power Commission of Ontario**  
 The Hydro-Electric Power Commission of Ontario is the largest power producer in the world.  
 The Commission is responsible for the development and operation of the Niagara Falls Power Project, the largest power project in the world.  
 The Commission is also responsible for the development and operation of the St. Lawrence River Project, the largest power project in the world.  
 The Commission is also responsible for the development and operation of the Lake Ontario Project, the largest power project in the world.  
 The Commission is also responsible for the development and operation of the Lake Erie Project, the largest power project in the world.  
 The Commission is also responsible for the development and operation of the Lake Huron Project, the largest power project in the world.  
 The Commission is also responsible for the development and operation of the Lake Michigan Project, the largest power project in the world.



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THE UNIVERSITY OF CHICAGO

1911

THE UNIVERSITY OF CHICAGO

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Toronto, Ontario,  
June 20th, 1923.

Hydro-Electric Inquiry Commission  
W. D. Gregory, Esq., Chairman,  
Toronto, Ontario.

The Ontario Power Company of Niagara Falls.

Mr. Chairman and Gentlemen:-

In accordance with your instructions, a general report on The Ontario Power Company of Niagara Falls has been made, along the lines approved of by the Commission on January 2nd. The work has been done under my direct personal supervision as per your instructions.

The reports of Messrs. Price, Waterhouse & Company and Messrs. Clarkson, Gordon & Dilworth, together with the reports by the Commission's Consulting Engineer, Mr. Walter J. Francis, have been used in the preparation of this report, and in addition complete studies have been made of all evidence taken at the public hearing held in connection with the company.

The report falls naturally into two parts. The first part includes sections entitled "Historical Sketch", "Physical", "General Economics", and "General Relations". These sections are largely a recital of facts, but in addition a considerable amount of evidence has been quoted in order to fairly represent the claims and counter-claims made in connection with the contentious matters brought to the attention of the Commission. The second part of the report entitled "Summary" is merely intended to direct attention to those points which appear to require special consideration by the Commission.

All figures used in this report have been carefully checked by a representative of Messrs. Price, Waterhouse & Company. Evidence and reports forming the basis of this report are appended hereto, and in order to facilitate reference to the documents in question, on the right-hand margin of the report throughout will be found abbreviated references.

Yours very truly,

*J. W. Sawyer*  
Secretary

London, 1922.

THE LANCET LONDON, 1922.

THE LANCET LONDON, 1922.

THE LANCET LONDON, 1922.

THE LANCET LONDON, 1922.

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THE LANCET LONDON, 1922.

THE LANCET LONDON, 1922.

Yours very truly,

W. J. G. [Signature]



THE ONTARIO POWER COMPANY OF NIAGARA FALLSHISTORICAL SKETCH.

The Ontario Power Company of Niagara Falls was originally incorporated with an authorized capital of \$250,000.00, by a special act of the Dominion of Canada, dated June 23rd, 1887. It appears that the company was instituted under the name of the Canadian Power Company, by Bankier Payne, who interested Oliver White of Buffalo in it, and later John Joseph Albright of Buffalo acquired control of the company. The change to the present name of the company was authorized by further act, dated July 10th, 1899, and by powers conferred by the Act of Incorporation the authorized capital stock was increased at different times to a total par value of \$15,000,000, only \$10,000,000 of which was outstanding at date of acquisition by the Commission. The powers granted to it were very broad and even included the right to build railways.

On April 11th, 1900, the company entered into an agreement with the Queen Victoria Niagara Falls Park Commission, by which water might be conducted in an open channel from the Welland River to a power house in the Park. The agreement was approved by an Order-in-Council dated April 13th, 1900.

Subsequent agreements were entered into with

R.S.Co.  
50-51  
Vic.  
Cap.  
120

R.S.Co.  
62-63  
Vic.  
Cap.  
105.

O.P.Co.  
Stat's.  
& Ag'ts  
p.47

O.P.Co.  
Stat's  
& Ag'ts  
p.60.

THE METALS MINES BOARD OF CANADA

MINERAL EXPLORATION

The Ontario Power Company at Kingston Mills was

originally incorporated with an authorized capital of

\$250,000.00, by a special act of the Province of Ontario,

dated June 22nd, 1907. It appears that the company was

incorporated under the name of the Canadian Power Company,

by similar terms, who incorporated under the name of Ontario

in 1911, and later the same company at Kingston Mills was

incorporated at the name of the Ontario Power Company.

The company was authorized by the act of 1907, and by

1907, and by power conferred by the act of incorporation

the authorized capital stock was increased at different

times to a total now of \$1,000,000.00, and \$1,000,000.00

of which was authorized at the time of incorporation by the

Commission. The power granted to it were very broad

and even included the right to build railways.

On April 1st, 1910, the company entered into

an agreement with the Great Victoria Lumber Mills Co.

Quebec, by which water rights were obtained in the

St. Lawrence River to a power house in the

area. The agreement was approved by the Ontario Council

dated April 1st, 1910.

Subsequent agreements have entered into with



Historical Sketch

(2)

the Park Commission on August 15th, 1901, and June 28th, 1902, whereby the rights of development granted under the agreement of 1900 were surrendered, and instead provision was made to conduct water from the Welland and Niagara Rivers by means of pipe lines. The agreements were approved by Orders-in-Council dated April 23rd, 1902, and August 7th, 1902.

The amount of power which the company was permitted to generate is not specified in the agreement, but in the reports of the Park Commission the amount mentioned for the Niagara River intake is that required to generate 130,000 horsepower.

W.P.  
of  
Canada  
p.75

The license granted by the Park Commission is for a term of fifty years, commencing April 1st, 1900, with the right to renew for three periods of twenty years each, bringing the total period under option to one hundred and ten years.

W.P.  
of  
Canada  
p.76

The plant of the company was designed by Messrs. P.M. and L.N. Hunn and was put into service immediately after its completion in 1906.

W.J.F.  
419a  
p.1

The following power distributing companies in Canada were affiliated with the Ontario Power Company:

1. The Ontario Transmission Company, Limited
2. The Ontario Distributing Company
3. The Falls Power Company
4. The Niagara, Lockport & Ontario Power Company

W.P.  
of  
Canada  
p.77

WITNESSES

(2)

The first Commission on Electric Power, 1945-1946, was the first  
to study the rights of government-owned power  
agencies of 1945 were authorized, and indeed provision  
was made to extend power from the United States  
to the rest of the world. The Commission was  
authorized by Congress in 1945, and in 1946,  
and August 1946, 1947.

The second Commission on Electric Power, 1947-1948, was  
authorized to continue to be authorized in the agreement,  
but in the report of the Commission the report  
explained that the Commission's report is not  
to be made in 1948, but in 1949.

The Commission on Electric Power, 1949-1950,  
was a study of the power, authorized in 1949,  
with the right to make the power of 1949  
years, which the power of 1949 was  
one hundred and ten years.

The Commission on Electric Power, 1951-1952,  
was a study of the power, authorized in 1951,  
which the power of 1951 was  
one hundred and ten years.

The Commission on Electric Power, 1953-1954,  
was a study of the power, authorized in 1953,  
which the power of 1953 was  
one hundred and ten years.

The Commission on Electric Power, 1955-1956,  
was a study of the power, authorized in 1955,  
which the power of 1955 was  
one hundred and ten years.

The Commission on Electric Power, 1957-1958,  
was a study of the power, authorized in 1957,  
which the power of 1957 was  
one hundred and ten years.



Subsequent to the passing of the Power Commission Act of 1906, the Hydro-Electric Power Commission of Ontario called for tenders for the supply of power. The Ontario Power Company of Niagara Falls submitted a tender which was eventually accepted by the Commission. Accordingly a contract dated March 19th, 1908, was entered into by which the Ontario Power Company agreed to deliver at Niagara Falls, Ontario, a maximum of 100,000 horsepower to be taken in certain blocks as required. This contract fixed the rate for power delivered at 12,000 volts at \$9.40 per horsepower per annum up to 25,000 horsepower, and at \$9.00 per horsepower per annum for all the power when the amount reserved and held ready for delivery upon the order of the Commission totalled 25,000 horsepower or more. An additional charge of \$1.00 per horsepower for power delivered at 60,000 volts was agreed upon. The contract was approved by Order-in-Council under date of March 24th, 1908, and was to expire in 1950, corresponding with the term of the water lease of the company from the Park Commission. On March 25th, 1916, the amount of power ordered to be held in reserve for the Commission reached the total of 100,000 horsepower available under this contract.

HEPC.  
Minute  
Book  
No.2  
p.54

W.J.F.  
p.6

W.J.F.  
p.7

The Commission proceeded to construct a transmission system, which came into operation August, 1910, to distribute the power purchased from the company.





Historical Sketch

(4)

and continued taking power from the company, under the above contract, until the acquisition of the company by the Commission on August 1st, 1917.

Prior to the purchase, except for a few small systems, the Commission had confined its activities in the main to the distribution of power rather than the generation.

The authority for the purchase was the enactment in 1917 of Clauses "g" and "h" of Section 8 of the Power Commission Act, and pursuant to the passing of these clauses, the Order-in-Council passed on May 26th, 1917. The agreement was ratified by the parties on August 1st, 1917, and was confirmed at the ensuing session of the Legislature. The agreement is set out in full commencing on page 152 of the Statutes of 1918. The agreement was dated April 12th, 1917, and the purchase was finally consummated as of August 1st, 1917.

R.S.O.  
7 Geo.V  
Cap.20  
Sec.5

R.S.O.  
8 Geo.V  
Cap.14  
Sched.  
"Y"

The Commission acquired from John Joseph Albright and his associates the shares of the Ontario Power Company of a par value of \$10,000,000 for a consideration of \$8,000,000, that is, at the rate of 80% of the par value of the capital stock, payable in 4% forty-year Gold Debentures of the Commission. The debentures are guaranteed by the Province of Ontario, pursuant to the provisions of Sections 14(c) and 14(d)

P.W.  
p.4

11/11/1914

(4)

and continued being present from the company, under the same contract, until the expiration of the company by the Commission on August 1st, 1917. This is the purchase, except for a few small details, the Commission had received the evidence in the case to the distribution of power between the Commission.

The authority for the purchase was the Commission in 1917 of which the 1st of January 1917 of the Commission Act, and passed on the 1st of January 1917, the Commission was passed on May 1st, 1917. The agreement was entered by the parties on August 1st, 1917, and was entered at the meeting session of the Commission.

The agreement is set out in full annexed on page 125 of the Minutes of 1917. The agreement was dated April 1st, 1917, and the purchase was finally completed on August 1st, 1917.

The Commission advised from June 1917 that the Commission was authorized the amount of the purchase of a gas value of \$18,000,000 for a period of \$18,000,000, that is, at the rate of \$18,000,000 at the value of the capital stock, which is the value of the Commission. The Commission was authorized by the Division of the Commission to the purchase of the Commission of \$18,000,000 and 1914.

11/11/1914  
11/11/1914  
11/11/1914

11/11/1914  
11/11/1914  
11/11/1914

11/11/1914  
11/11/1914



Historical Sketch

(5)

of the Power Commission Act.

The Commission is the owner of the shares of the Ontario Power Company, the directors and officers being:

Sir Adam Beck	President
Col. D. Carmichael	1st Vice-President
Mr. R. Miller	2nd Vice-President
W. W. Pope	Director and Secretary
F. A. Gaby	Director and Chief Engineer
J. W. Gilmour	Director and Treasurer
W. J. Pierdon	Director

x now deceased.

Certain directors are receiving a salary from the Ontario Power Company as the paid officers of that company.

The properties of the company are situated, for the most part, at Niagara Falls, Ontario, and, at the date of purchase, consisted principally of a hydro-electric generating plant comprising a power house, two conduits or pipe lines, with the necessary headworks, and fourteen turbines and generating units and other equipment providing a capacity for generating approximately 160,000 horsepower. The company also owned real estate as well as the transformer station, transmission lines and distributing stations required for its uses. The transmission and distributing system was under the control of The Ontario Transmission Company, Limited, a subsidiary company of the Ontario Power Company.

W.J.P.  
p.8.

In 1917 the Commission received, from the

Enclosure

(4)

of the tower described and  
The Commission in the report of the states of  
the electric tower described, the following are the  
being:

- |                             |                 |
|-----------------------------|-----------------|
| President                   | Mr. J. M. Smith |
| Vice-President              | Mr. J. M. Smith |
| Secretary and Treasurer     | Mr. J. M. Smith |
| Director and Chief Engineer | Mr. J. M. Smith |
| Director and Treasurer      | Mr. J. M. Smith |
| Director                    | Mr. J. M. Smith |

It was stated  
The electric tower described is the only one of this  
company.  
The properties of the tower are as follows:  
for the most part, as follows: (a) The tower is  
the date of erection, consisted principally of a heavy-  
electric generating plant consisting of a power house, two  
condensers or pipe lines, with the necessary machinery,  
and fourteen engines and generators and other  
equipment providing a capacity for generating approxi-  
mately 100,000 kilowatts. The company also owned two  
engines as well as the transmission lines, substations,  
lines and distribution systems required for the work.  
The transmission and distribution system was under the  
control of the Electric Transmission Company, which  
a subsidiary company of the Electric Power Company.  
In 1917 the Commission received from the

W. L. L.  
P. S.



Historical Sketch

(6)

Commissioners of the Queen Victoria Niagara Falls Park, permission to construct a third conduit, known as the "Third Pipe Line," and the construction of this conduit was completed in the spring of 1919. Two new generating units, Nos. 15 and 16, were added in a new extension of the power house and the capacity of the plant was increased to approximately 200,000 horsepower. At October 31st, 1921, the Commission had advanced \$3,515,094.93 to the Ontario Power Company in connection with this construction.

W.J.F.  
p. 11  
& 12.

On April 20th, 1922, an accident occurred which resulted in the destruction of units Nos. 15 and 16, and considerable damage by water to a number of other units causing a very large temporary reduction in the capacity of the plant. Generators Nos. 15 and 16 have not as yet been replaced and the present capacity of the plant is about 175,000 horsepower.

Full details of the accident are given in a report to this Commission by Mr. Walter J. Francis, dated November 13th, 1922.

W.J.F.  
p.12

Electrical Engineer

(4)

Commissioners of the United States District Court  
New York, New York  
as the "United States Bank," and the assignment of this  
bank was completed in the spring of 1919. The new  
generating plant, Nos. 10 and 12, was added in a new  
extension of the power house and the capacity of the  
plant was increased to approximately 100,000 kilowatt-  
hours. In October 1919, the Commission and  
advanced \$1,000,000 to the United States Bank Company  
in connection with this construction.

U.S.D.C.  
N.Y.  
p. 12  
a 12.

ON APRIL 1919, an electric company  
which was in the possession of about 100,000  
and 12, and considerable damage by water in a number  
of other units causing a very large capacity reduction  
in the capacity of the plant. Generators Nos. 10 and  
12 have not yet been replaced and the present  
capacity of the plant is about 100,000 kilowatt-  
hours. Details of the accident are given in a report to

U.S.D.C.  
p. 12

This Commission by Mr. Walter J. Francis, dated  
November 1919, 1919.



PHYSICALLocation

The hydro-electric development of the Ontario Power Company is located on the Canadian side of the Niagara River in the immediate vicinity of the Horseshoe Falls, the headworks being about a mile above the Falls, and the power house in the gorge a short distance downstream from the Falls. W.J.F. p.12

Headworks

COPY  
The headworks, consisting of an intake, an outer forebay, a screen house, an inner forebay and a gate-house, are built of concrete and stonework and the principal buildings are monumental in design. W.J.F. p.12.

Conduits

Three underground conduits convey the water from the headworks to the penstocks leading to the turbines in the power house. The conduits are approximately 6,500 feet in length and have a total drop of 28 feet from the head-gates to the inlets of the penstocks.

The first conduit was made of steel plate and is designated No.1. It is of circular section with an internal diameter of 18 feet. A full description of this conduit in its present condition is given in a report to

Exhibit

(7)

EXHIBIT

Exhibit

The hydroelectric development of the entire

Lower Canyon is located on the western side of the

Colorado River in the immediate vicinity of the

falls, the headworks being about a mile above the falls.

and the power house in the gorge a short distance above

stream from the falls.

COPY

Exhibit

The dam, consisting of an intake, an

adjoining reservoir, a power house, an intake tunnel and a

tailrace, are built of concrete and masonry and the

entire project is designed.

Exhibit

These hydroelectric works are among the most

important in the country and are the most

in the West. The works are approximately 4,400

feet in length and have a total drop of 14 feet from the

headrace to the intake of the powerhouse.

The first conduit was made of steel pipe

and is designated No. 1. It is of circular section with an

internal diameter of 18 feet. A full description of this

conduit in the present condition is given in a report to



this Commission by Mr. Walter J. Francis, dated September 26th, 1922.

The second conduit, No. 2, is constructed of reinforced concrete and is adjacent to No. 1, and on the river side thereof. The section of No. 2 is that known as a "hydrostatic chord" and has an area equivalent to that of a circle 18 feet in diameter. It was constructed in the years 1909 and 1910.

The third conduit, known as No. 3, is of wood-stave construction, of circular section with an internal diameter of 15.5 feet. It was constructed after the Ontario Power Company had been purchased by the Commission and was completed in 1919.

The water is admitted to the conduits by means of Stoney sluice head-gates, there being one head-gate for each conduit, all located in the gate-house. A surge tank is connected to each conduit.

W.J.F.  
p.12  
& 13

### Penstocks

Sixteen steel penstocks embedded in concrete carry the water from the conduits to the main units in the power house, one penstock for each main unit. Nos. 1 to 12, inclusive, are 9 feet in diameter; Nos. 13 and 14 are 9.5 feet in diameter, and Nos. 15 and 16 are 10.5 feet in diameter. Johnson valves are installed in penstocks Nos. 12 to 16 and gate valves are connected to the others.

W.J.F.  
p.13

This investigation by Dr. Walter A. Rauscher, began

September 28th, 1922.

The second conduit, No. 2, is constructed

of reinforced concrete and is situated on No. 1, and

in the river side channel. The section of No. 2 is three

feet as a typical section and has an area equivalent

to that of a circle 15 feet in diameter. It was built

between the years 1909 and 1910.

The third conduit, known as No. 3, is of wood-

frame construction, of circular section with an internal

diameter of 12.5 feet. It was constructed after the

second conduit was built and was placed in the main-

line and was completed in 1914.

The water is delivered to the conduit by

means of three large cast-iron pipes being one foot-

gate for each conduit, all located in the gate-house.

A large gate is connected to the conduits.

### Construction

Between the conduits embedded in concrete

carry the water from the conduits to the main line in the

river house, and passages for each main line. The 1 to 12

inches, are 3 feet in diameter. The 15 and 18 are

3.5 feet in diameter, and 20, 22 and 24 are 15.5 feet

in diameter. Large valves are installed in passages

and 22 to 24 inch gate valves are connected to the river.

1922  
p. 12  
a. 12

1922  
p. 12  
a. 12



Power House

The power house is about 780 feet long and is located at the water's edge at the base of the cliff.

In the original plant there were fourteen main units in addition to the exciters. In 1919 main units Nos. 15 and 16 were added.

The turbine rating of main units Nos. 1 to 7 is 11,800 horsepower each; of Nos. 8 to 12 is 15,000 horsepower each; of Nos. 13 and 14 is 16,000 horsepower each, and of Nos. 15 and 16 is 18,000 horsepower each.

Units Nos. 1 to 6 are operated from conduit No. 1; unit No. 7 is operated from conduit No. 1 or No. 2; units Nos. 8 to 12 are operated from conduit No. 2; units 13 and 14 are operated from conduit No. 2 or No. 3, and units Nos. 15 and 16 were operated from conduit No. 3.

All generating units are of horizontal shaft type and the net turbine head is estimated by the engineers of the Commission to be about 190 feet.

Generators Nos. 1 to 3 are 7,500 kilowatts each, generators Nos. 4 to 14 are 8,776 kilowatts each, and generators Nos. 15 and 16 were 12,000 kilowatts each. Unit No. 15 commenced operation on June 3rd, 1919, and unit No. 16 on August 12th, 1919. All these generators are three-phase, 25-cycles, 12,000-volts. The combined ordinary rating of the sixteen units is 143,000 kilowatts, or about 191,000 horsepower at 80 per cent. power factor.

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# General Description

The power house is about 700 feet long and is located at the water's edge at the base of the cliff.

In the original plans there were four main units in addition to the auxiliary. In 1915 main

unit No. 1 and 10 were added.

The following table of main units No. 1 to 7

is 11,000 horsepower each; No. 8 to 10 is 10,000 horsepower each; No. 11 and 12 is 10,000 horsepower each; and No. 13 and 14 is 10,000 horsepower each.

Units No. 1 to 4 are operated from No. 1 to 4. Units No. 5 to 12 are operated from No. 5 to 12. Units No. 13 and 14 are operated from No. 13 to 14. Units No. 15 and 16 are operated from No. 15 to 16.

All generating units are of horizontal type

and the last turbine unit is operated by the engine at the transmission to be about 110 feet.

Generator No. 1 to 4 are 7,000 kilowatt each.

Generator No. 5 to 10 are 8,750 kilowatt each, and generator No. 11 and 12 are 11,000 kilowatt each. Unit No. 13 is connected operation on June 2nd, 1915, and unit No. 14 on August 1st, 1915. All these generators are three-phase, 11,000-volt. The combined available rating of the turbine units is 121,000 kilowatt, or about 191,000 horsepower at 85 per cent. power factor.



The accident to the two 12,000 kilowatt generators on April 20th, 1922, reduced the nominal rated capacity of the plant by 24,000 kilowatts or 32,000 horsepower.

The maximum output obtained from the plant with three conduits and sixteen generators in service is stated to have been about 202,000 horsepower. The output with conduit No.1 alone is stated to be 59,000 horsepower. The surge tank installed with this conduit is said not to function adequately when operating alone.

The output of conduit No.1, with No.2 in service, is said to be about 66,000 horsepower. The output of conduit No.2, with No.1 in service, is said to be about 94,000 horsepower. The output of conduit No.3, with No.1 and No.2 in service, is said to be about 40,000 horsepower; and the total normal output with three conduits is about 200,000 horsepower. It will be noted that this output of 200,000 horsepower is 9,000 horsepower in excess of the combined ordinary horsepower rating of the sixteen generating units in the plant. This is due to the fact that the capacity of units Nos. 1 to 14 was increased by the increase in the water supply due to the installation of the third conduit.

When the accident occurred on April 20th, 1922, No.15 and No.16 generators were destroyed and their capacity was lost, but the water unused by them is now





available for the other machines.

The peak capacity of the plant may therefore be considered as approximately 160,000 horsepower previous to the installation of the third conduit; 200,000 horsepower after the third conduit and generators No.15 and No.16 were installed and previous to the accident; and about 175,000 horsepower since the accident. The records show that an actual output of about 130,000 kilowatts, or 174,000 horsepower, has been obtained during recent months.

Under peak load conditions the power obtained from the water is stated to be approximately 15 horsepower per cubic foot per second, and on this assumption the maximum water used with sixteen machines would be  $\frac{200,000}{15} = 13,300$  cubic feet per second; with No.1 and No.2 conduits and generators Nos. 1 to 14, the amount of water used would be  $\frac{160,000}{15} = 10,700$  cubic feet per second, and with three conduits and fourteen machines as at present the water used would be  $\frac{175,000}{15} = 11,700$  cubic feet per second.

The gross head of this development is about 215 feet, and accepting the value of 15 horsepower per cubic foot of water per second, the overall efficiency is about 61 per cent.

W.J.F.  
p.13,  
14,15  
& 16.

#### The Main Transformer and Distributing Station

The main transformer and distributing station is located on the top of the hill about 500 feet from the

1901

(11)

available for the other business.

The peak capacity of the plant may therefore

be estimated as approximately 150,000 horsepower

in the installation of the 150,000 horsepower

after the first month and approximately 150,000

and provision for the residents and other

150,000 horsepower after the month. The power

that is required for the 150,000 horsepower

150,000 horsepower, has been obtained during the

three years last mentioned for power

that the water is used for approximately 15

per cubic foot per second, and in this situation the

was used with electric machines would be 150,000

150,000 per second with 150,000 horsepower

approximately 150,000 per second of water

150,000 per second of water, and with

150,000 per second of water, and with

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The first part of this development is

150,000 per second of water, and with

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The main transformer and distribution

150,000 per second of water, and with

150,000 per second of water, and with

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crest of the cliff at the rear of the power house and contains switching, operating and control apparatus, as well as the high voltage equipment. Communication is established between the power house and the transformer station by tunnels in which the 12,000-volt cables are carried, and by shafts in which elevators are installed.

Further details of the company's plant may be found in the reports of Mr. Walter J. Francis on the "Principal Characteristics of H. E. P. C. Plants," dated October 19th, 1922, and the "Description of the Plant of The Ontario Power Company of Niagara Falls", dated March 6th, 1923.

The plant and system of the Ontario Power Company is operated in parallel with the other generating stations at Niagara Falls, supplying power to private consumers, to the Commission and for export. The details of the combined operations of the various plants are discussed in a separate report on the Niagara System in which are also discussed the growth and other characteristics of the market, the data on population and so forth.

W.J.F.  
p.16

A map showing location of generating station, transformer stations and transmission lines forms the frontpiece of this report.





## GENERAL ECONOMICS

The following review of the general economics of the company is based on information obtained from the reports submitted by Messrs. Price, Waterhouse & Company, Auditors, Messrs. Walter J. Francis & Company, Consulting Engineers, and Messrs. Clarkson, Gordon & Dilworth, Auditors, together with evidence given at the public hearing held in connection with the company.

### Purchase Price

COPY

The Ontario Power Company of Niagara Falls and its subsidiary the Ontario Transmission Company, Limited, were acquired by the Commission under Agreement of April 12th, 1917, entered into with John Joseph Albright of Buffalo, acting as vendor of the shares of the purchased companies. The par value of the shares acquired was \$10,000,000, which represents the total stock outstanding, and the consideration given for such shares was \$8,000,000 payable by 4% forty-year Gold Debentures of the Hydro-Electric Power Commission of Ontario, guaranteed by the Province of Ontario. The assets of the companies at August 1st, 1917, amounted to \$26,446,933.95 and the liabilities and reserves to \$16,446,933.95. The liabilities included funded debt in the amount of \$14,450,000, being outstanding mortgage bonds,

P.W.  
p.4

EXHIBIT A

The following table of the assets and liabilities of the company is based on the information furnished to the company by the company's officers, directors, and shareholders, and is not intended to be a statement of the company's financial condition. The company's assets and liabilities are shown in the table below.

COPY

The Ontario Power Generation of Ontario Inc. and its subsidiary, the Ontario Transmission Corporation, Limited, were acquired by the Ontario Power Generation of Ontario Inc. in 1999. The acquisition was completed on April 1, 1999. The company's assets and liabilities are shown in the table below.

Assets	Liabilities
1. Cash and cash equivalents	1. Accounts payable
2. Accounts receivable	2. Long-term debt
3. Property, plant, and equipment	3. Other liabilities
4. Intangible assets	
5. Other assets	



debentures, etc., the responsibility for which was assumed by the Commission.

Order-in-Council authorizing the purchase was approved by His Honour the Lieutenant-Governor on May 26th, 1917, and validated by the Legislature on March 26th, 1918.

At the close of each fiscal year the stock acquired and debentures issued therefor were as follows:

Period	Par Value of Stock	Debentures Issued Therefor	
Year ending October 31, 1917	\$ 9,980,000.00	\$7,984,000.00	
Year ending October 31, 1918	9,987,700.00	7,990,100.00	P.W.
Year ending October 31, 1919	9,993,700.00	7,994,900.00	P.4
Year ending October 31, 1920	10,000,000.00	8,000,000.00	
Year ending October 31, 1921	10,000,000.00	8,000,000.00	

At the time of acquisition of these properties, there was standing on the books of the Ontario Power Company an amount of \$1,486,210.13 over the \$10,000,000 stock shown above, representing a surplus built up prior to August 1st, 1917, the date the Commission assumed operation and control of the companies.

This surplus item was closed out by the company as at August 1st, 1917, in the following manner:

Amortization of Bond Discount, previously capitalized, representing the amount of discount applicable to the period prior to August 1st, 1917 -			
Power Company . . . . .	\$617,795.27		
Transmission Company . . . . .	51,511.96	\$669,307.23	
Betterments to plant written off:			
Power Company	\$ 72,436.51		
Transmission Company	7,310.28	79,746.79	

debentures, and the responsibility for which was assumed

by the Commission.

Order-in-Council authorized the purchase was

approved by the Senate the day after the purchase was

made, and authorized by the Legislature on the 10th of

at the close of each financial year the stockholders

and debenture holders receive dividends as follows:

Period	For share of stock	For share of debentures
Year ending October 31, 1917	\$ 1,000,000.00	\$ 1,000,000.00
Year ending October 31, 1918	1,000,000.00	1,000,000.00
Year ending October 31, 1919	1,000,000.00	1,000,000.00
Year ending October 31, 1920	1,000,000.00	1,000,000.00
Year ending October 31, 1921	1,000,000.00	1,000,000.00

At the time of acquisition of these properties,

there was standing on the books of the Ontario Power Company

an amount of \$1,000,000.00, and the \$1,000,000.00 which was

there, representing a surplus paid up prior to August 1st,

1914, and also the Commission received subscription and capital

of the companies.

This surplus item was added to the account of

on August 1st, 1914, in the following manner:

Investment in bond debentures, 1914-  
1915, 1916, 1917, 1918, 1919, 1920, 1921,  
amount of dividend payments on the  
bonds prior to August 1st, 1914 -

1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921

1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921

1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921

1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921

1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921



**Increase in Renewal and Depreciation  
Reserve Accounts:**

Power Company . . . . .	\$460,725.40	
Transmission Company . . . . .	<u>256,432.71</u>	<u>\$737,156.11</u>

Total as above . . . . . \$1,486,210.13

After closing out this surplus account, the net assets of the Ontario Power Company and the Ontario Transmission Company, Limited, amounted to \$10,000,000 on August 1st, 1917, (as represented by the \$10,000,000 stock acquired) as follows:

Total Plant, Real Estate & Goodwill .	\$25,155,380.29	P.W.
Less: Capital Stock of Ontario Trans-		P.7
mission Company, Limited .	<u>1,000,000.00</u>	
	\$24,155,380.29	
Current & Working Assets deferred		
debts .	<u>2,291,553.66</u>	
	<u>\$26,446,933.95</u>	

**LESS:**

Funded Debt . . . . .	\$14,450,000.00	
Other Liabilities . . . . .	<u>1,116,100.60</u>	
Reserve for Renewals . . . . .	<u>880,833.35</u>	<u>\$16,446,933.95</u>

Excess of Assets over  
Liabilities . . . . . \$ 10,000,000.00

**Represented by:-**

Capital Stock of the Power Company outstanding in the hands of the Commission and of the public . . . . .	<u>\$ 10,000,000.00</u>
---	-------------------------

As all the books of account were not handed over to the Commission at the time of acquisition of the companies, it is impossible to give details in support of the amount of plant of \$25,155,380.29 shown above.

P.W.  
p.5

Balance Sheet

(12)

Interest on Debentures and Capitalization

Interest on Debentures \$1,000,000.00  
Interest on Capitalization \$1,000,000.00

Total as above \$2,000,000.00

After deducting the following amounts, the net amount  
of the Debentures and Capitalization is \$1,000,000.00  
Interest on Debentures \$1,000,000.00  
Interest on Capitalization \$1,000,000.00

Total Assets, Less Liabilities and Reserves  
Total Assets \$1,000,000.00  
Less Liabilities and Reserves \$1,000,000.00

Balance Sheet

\$1,000,000.00

Total

Interest on Debentures \$1,000,000.00  
Interest on Capitalization \$1,000,000.00

\$1,000,000.00

Interest on Debentures \$1,000,000.00  
Interest on Capitalization \$1,000,000.00

Interest on Debentures

Interest on Debentures \$1,000,000.00  
Interest on Capitalization \$1,000,000.00

\$1,000,000.00

Interest on Debentures \$1,000,000.00

Interest on Capitalization \$1,000,000.00

Interest on Debentures \$1,000,000.00

Interest on Capitalization \$1,000,000.00



Investment by the Commission

As at October 31st, 1922, the Commission had advanced funds to, or issued bonds for the purposes of the company in the following amounts:

For the Third Pipe Line	\$3,514,676.62	
For retiring bonds due 1921	<u>3,200,000.00</u>	\$6,714,676.62
4% forty-year bonds, issued in payment of the purchase price of the capital stock of the company		<u>\$8,000,000.00</u>
Accrued interest owing to the Commission at October 31st, 1922		147,856.16
Amounts owing on the current account		<u>328,508.05</u>
Total		<u>\$18,191,040.83</u>

CG&D  
BS.  
10/31/22

It is to be noted that the \$3,200,000.00 advanced by the Commission for retiring bonds due in 1921 was obtained by the sale of the Commission's debentures guaranteed by the Province.

The \$3,514,676.62 was advanced to the company by the Commission out of funds appropriated by the Government for other purposes and funds obtained from the Bank of Montreal on a loan in the amount of \$1,250,000. When this loan was made, it was understood that it was to be paid off out of revenue of the Company, in monthly instalments of \$50,000.00 each. Only one payment has been made up to the present time, and the balance of \$1,200,000 remains owing to the bank at October 31st, 1922. It would appear that





some arrangement must be made to place this loan in the form of long term indebtedness, as under the present plan it is being repaid on a sinking fund basis over a period of thirty years.

Investment in Capital Assets

In his initial report on the accounts of the company at October 31st, 1918, Mr. Clarkson states in respect of plant and equipment accounts at that date, and in connection with the absence of the original books of entry that, "From such information as is available, however, they would appear to consist approximately as follows:

P.W.  
p. 849

(a) Investment in plant, real estate transmission lines, distributing stations . . . . .	\$14,747,599.49
(b) Discount on bonds capitalized, less amounts written off . . . .	971,284.55
(c) Attributed to value of rights, franchises, goodwill, etc . . . .	10,304,113.07
(d) Expended upon construction of Third Pipe Line to works of Company (in progress) . . . .	<u>1,349,170.63</u>
	<u>\$27,372,167.74</u>

From the above, it will be noted that the intangibles at October 31st, 1918, amounted to approximately \$10,300,000.

The total investment in capital assets at October 31st, 1922, was \$27,689,622.68, made up as follows:

such arrangements must be made as to have this done in the  
time of last year's investigation, as under the present plan  
it is being reported on a standing basis over a period  
of thirty years.

Investment in Public Assets

In his initial report on the accounts of the  
company at various times, Mr. Thompson states in  
report of assets and equipment accounts at that date, and  
in accordance with the account of the original report at  
that time, "from this information as is available,"  
however, they would appear to be fairly representative as  
follows:

(a) Investment in plant, real estate investments, etc., distributed between . . . . .	125,747,202.46
(b) Disposal of assets less amounts withdrawn . . . . .	21,200,445
(c) Assets at value of 1935 Investment, 1935, etc. . . . .	12,200,122.27
(d) Expanded upon investigation of which type line to work of company in progress . . . . .	1,452,716.46
	<u>127,200,127.46</u>

From the above, it will be noted that the  
percentage of 1935-1936, 1937, accounted for approximately  
\$10,200,000.  
The total investment in public assets as shown  
that, 1935, was \$12,200,122.27, which is the difference



Plant, Real Estate, Transmission Lines, Distributing Stations and Rights . . . . .	\$25,132,427.40	
Expenditures on construction of Third Pipe Line (completed) . .	3,514,676.62	CG&D BS.
Tools and Construction Equipment	32,334.17	10/31/22
Furniture and Fixtures . . . . .	8,533.19	
Instruments . . . . .	452.96	
Automobiles and Vehicles . . . . .	1,198.54	
	<u>\$28,639,622.88</u>	
LESS:		
Capital Stock of Ontario Transmission Company, Limited . .	<u>1,000,000.00</u>	
	<u>\$27,639,622.88</u>	

Third Pipe Line

On account of the shortage of power in the Province of Ontario, the Commission undertook the construction of a Third Pipe Line, which was discussed in a directors' meeting of the Company on December 20th, 1917, as follows:

"The Chief Engineer submitted a further report with respect to the construction of wood stave pipe line at Niagara, outlining an estimated expenditure of \$1,806,000 covering the supplying of an additional 50,000 h.p. The matter was carefully considered and it was decided that the scheme in its entirety was necessary and feasible, providing the financial arrangements could be carried out and the matter was left in the hands of the President to submit a complete statement of the present and proposed earnings of the Company to the Bank of Montreal with a view of obtaining the necessary money to cover the work."

H/B  
p.50

Under authority of an Order-in-Council dated February 6th, 1918, the Commission obtained a loan of \$1,250,000 from the Bank of Montreal, which was guaranteed

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as follows:

to cover the work."

Yehuda's son, Yehonatan, was born in 1890, and his wife, Yehonatan's daughter, was born in 1891.



by the Province. First Mortgage Bonds of the Company of \$1,400,000 were pledged to the Bank as collateral security for the loan.

The total advances by the Commission as at October 31st, 1922, for purposes of the Third Pipe Line amounted to \$3,514,676.62, all of which had been expended in construction at that date, as follows:

General and Head Office . . . . .	\$ 286,499.15	
Engineering . . . . .	108,971.60	
Generating Stations . . . . .	716,790.16	
Construction Plant and Machinery . . . . .	87,913.13	P.W.
Construction . . . . .	2,309,566.17	p.10
Rehabilitating track from "Maid of the Mist" landing to the Ontario Power Company power house	5,354.72	Ex.111
	<u>\$3,515,094.93</u>	
Less adjustments during 1922 . . . . .	<u>418.31</u>	
Total October 31, 1922 . . . . .	<u>\$3,514,676.62</u>	

### Accounts Receivable

The balance of \$333,110.42 of accounts receivable at October 31, 1922, is considered collectible by the Commission, subject to the following comments.

Included in the above amount is an overdue account outstanding against the Department of Railways and Canals in the amount of \$56,484.55 in respect of dispute as to the rates charged for power during the period from August, 1919, to October 31st, 1922, which were not governed by written agreement. There is also an amount of \$151,638.94 against the Niagara, Lockport & Ontario Power Company, representing the

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The total number of the Commission is 20 members.

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Journal of the American Statistical Association

10. *Conclusions*

1990-1991 1991-1992 1992-1993 1993-1994 1994-1995 1995-1996 1996-1997 1997-1998 1998-1999 1999-2000 2000-2001 2001-2002 2002-2003 2003-2004 2004-2005 2005-2006 2006-2007 2007-2008 2008-2009 2009-2010 2010-2011 2011-2012 2012-2013 2013-2014 2014-2015 2015-2016 2016-2017 2017-2018 2018-2019 2019-2020 2020-2021 2021-2022 2022-2023 2023-2024 2024-2025 2025-2026 2026-2027 2027-2028 2028-2029 2029-2030 2030-2031 2031-2032 2032-2033 2033-2034 2034-2035 2035-2036 2036-2037 2037-2038 2038-2039 2039-2040 2040-2041 2041-2042 2042-2043 2043-2044 2044-2045 2045-2046 2046-2047 2047-2048 2048-2049 2049-2050 2050-2051 2051-2052 2052-2053 2053-2054 2054-2055 2055-2056 2056-2057 2057-2058 2058-2059 2059-2060 2060-2061 2061-2062 2062-2063 2063-2064 2064-2065 2065-2066 2066-2067 2067-2068 2068-2069 2069-2070 2070-2071 2071-2072 2072-2073 2073-2074 2074-2075 2075-2076 2076-2077 2077-2078 2078-2079 2079-2080 2080-2081 2081-2082 2082-2083 2083-2084 2084-2085 2085-2086 2086-2087 2087-2088 2088-2089 2089-2090 2090-2091 2091-2092 2092-2093 2093-2094 2094-2095 2095-2096 2096-2097 2097-2098 2098-2099 2099-2100 2100-2101 2101-2102 2102-2103 2103-2104 2104-2105 2105-2106 2106-2107 2107-2108 2108-2109 2109-2110 2110-2111 2111-2112 2112-2113 2113-2114 2114-2115 2115-2116 2116-2117 2117-2118 2118-2119 2119-2120 2120-2121 2121-2122 2122-2123 2123-2124 2124-2125 2125-2126 2126-2127 2127-2128 2128-2129 2129-2130 2130-2131 2131-2132 2132-2133 2133-2134 2134-2135 2135-2136 2136-2137 2137-2138 2138-2139 2139-2140 2140-2141 2141-2142 2142-2143 2143-2144 2144-2145 2145-2146 2146-2147 2147-2148 2148-2149 2149-2150 2150-2151 2151-2152 2152-2153 2153-2154 2154-2155 2155-2156 2156-2157 2157-2158 2158-2159 2159-2160 2160-2161 2161-2162 2162-2163 2163-2164 2164-2165 2165-2166 2166-2167 2167-2168 2168-2169 2169-2170 2170-2171 2171-2172 2172-2173 2173-2174 2174-2175 2175-2176 2176-2177 2177-2178 2178-2179 2179-2180 2180-2181 2181-2182 2182-2183 2183-2184 2184-2185 2185-2186 2186-2187 2187-2188 2188-2189 2189-2190 2190-2191 2191-2192 2192-2193 2193-2194 2194-2195 2195-2196 2196-2197 2197-2198 2198-2199 2199-2200 2200-2201 2201-2202 2202-2203 2203-2204 2204-2205 2205-2206 2206-2207 2207-2208 2208-2209 2209-2210 2210-2211 2211-2212 2212-2213 2213-2214 2214-2215 2215-2216 2216-2217 2217-2218 2218-2219 2219-2220 2220-2221 2221-2222 2222-2223 2223-2224 2224-2225 2225-2226 2226-2227 2227-2228 2228-2229 2229-2230 2230-2231 2231-2232 2232-2233 2233-2234 2234-2235 2235-2236 2236-2237 2237-2238 2238-2239 2239-2240 2240-2241 2241-2242 2242-2243 2243-2244 2244-2245 2245-2246 2246-2247 2247-2248 2248-2249 2249-2250 2250-2251 2251-2252 2252-2253 2253-2254 2254-2255 2255-2256 2256-2257 2257-2258 2258-2259 2259-2260 2260-2261 2261-2262 2262-2263 2263-2264 2264-2265 2265-2266 2266-2267 2267-2268 2268-2269 2269-2270 2270-2271 2271-2272 2272-2273 2273-2274 2274-2275 2275-2276 2276-2277 2277-2278 2278-2279 2279-2280 2280-2281 2281-2282 2282-2283 2283-2284 2284-2285 2285-2286 2286-2287 2287-2288 2288-2289 2289-2290 2290-2291 2291-2292 2292-2293 2293-2294 2294-2295 2295-2296 2296-2297 2297-2298 2298-2299 2299-2300 2300-2301 2301-2302 2302-2303 2303-2304 2304-2305 2305-2306 2306-2307 2307-2308 2308-2309 2309-2310 2310-2311 2311-2312 2312-2313 2313-2314 2314-2315 2315-2316 2316-2317 2317-2318 2318-2319 2319-2320 2320-2321 2321-2322 2322-2323 2323-2324 2324-2325 2325-2326 2326-2327 2327-2328 2328-2329 2329-2330 2330-2331 2331-2332 2332-2333 2333-2334 2334-2335 2335-2336 2336-2337 2337-2338 2338-2339 2339-2340 2340-2341 2341-2342 2342-2343 2343-2344 2344-2345 2345-2346 2346-2347 2347-2348 2348-2349 2349-2350 2350-2351 2351-2352 2352-2353 2353-2354 2354-2355 2355-2356 2356-2357 2357-2358 2358-2359 2359-2360 2360-2361 2361-2362 2362-2363 2363-2364 2364-2365 2365-2366 2366-2367 2367-2368 2368-2369 2369-2370 2370-2371 2371-2372 2372-2373 2373-2374 2374-2375 2375-2376 2376-2377 2377-2378 2378-2379 2379-2380 2380-2381 2381-2382 2382-2383 2383-2384 2384-2385 2385-2386 2386-2387 2387-2388 2388-2389 2389-2390 2390-2391 2391-2392 2392-2393 2393-2394 2394-2395 2395-2396 2396-2397 2397-2398 2398-2399 2399

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[illegible]



balance of certain bills standing in arrears, balances of certain other bills and unpaid American exchange charges which are in dispute.

Claims against J. J. Albright

The Company has a claim against Mr. J. J. Albright of Buffalo, in the amount of \$295,633.20, which represents a minimum amount that the Company contends should be deposited by Mr. Albright under the terms of the purchase agreement dated April 12, 1917. This claim arose out of the sale of the Company to the Commission and represents charges for interest, expenses, taxes and water rentals to August 1, 1917, when the Commission took over control of the Company and which were not included in the liabilities at that date. Of the amount of the claim, approximately \$111,000 was awarded to the Commission by a judgment of the Supreme Court of Ontario; the balance is still under negotiation.

Deposit with Supreme Court of Ontario

This item in the amount of \$169,425.24 represents cash deposited with the Supreme Court of Ontario in connection with litigation arising out of a claim by the Toronto Power Company. Under part of the agreements by which the Commission assumed control of the Toronto Power Company, it was stipulated that all existing litigation be wiped out, so this deposit of \$169,425.24 was released to the Commission and has been returned to them since the close of the last fiscal year.

CG&D  
Opr. Ac.  
Oct/22

CONFIDENTIAL - SECURITY INFORMATION

(S)

Balance of \$100,000.00 is being held in escrow by the  
Commissioner of the General Land Office, which is in dispute.

Balance of \$100,000.00

The Company has a claim against the U.S. Government  
in the amount of \$100,000.00, which represents a  
claim against the U.S. Government for the balance of  
the U.S. Government's claim against the Company.  
The U.S. Government has agreed to pay the balance of  
the U.S. Government's claim against the Company in  
the amount of \$100,000.00, which represents a  
claim against the U.S. Government for the balance of  
the U.S. Government's claim against the Company.  
The balance is being held in escrow by the  
Commissioner of the General Land Office, which is in dispute.

Balance of \$100,000.00

This item is the amount of \$100,000.00, which represents  
a claim against the U.S. Government for the balance of  
the U.S. Government's claim against the Company.  
The U.S. Government has agreed to pay the balance of  
the U.S. Government's claim against the Company in  
the amount of \$100,000.00, which represents a  
claim against the U.S. Government for the balance of  
the U.S. Government's claim against the Company.  
The balance is being held in escrow by the  
Commissioner of the General Land Office, which is in dispute.



Discount on Bonds

The balance in this account at October 31st, 1922, amounted to \$933,695.96. Prior to the date the Company was taken over by the Commission, discount on bonds in the sum of \$1,702,525.91 was included in the accounts as part of the cost of the properties. In distributing the credit balance in Surplus Account at August 1st, 1917, this amount was reduced to \$1,033,218.68. The changes in the account from August 1st, 1917, to October 31st, 1922, are as follows:

August, 1917 - Balance	\$1,033,218.68	
Less - Amount charged to Profit & Loss from August 1st, 1917, to Oct. 31, 1922		<u>245,413.55</u>
		\$ 787,805.15

ADD:

Amount of discount on debentures issued by the Commission, for purpose of retiring debentures of Power Company due July 1st, 1921	\$	156,480.00
---	----	------------

LESS:

Written off to Profit and Loss	<u>10,539.19</u>	<u>145,390.81</u>
--------------------------------	------------------	-------------------

Balance at October 31st, 1922 . . . .	<u>\$933,695.96</u>
---------------------------------------	---------------------

The sum of \$933,695.96 will be charged against future operations during life of the bonds and debentures.

American Exchange on Remittances

to retire bonds due 1921 - \$358,920.77

The American exchange paid in connection with the retirement of \$2,753,000.00 of Ontario Power Company 6% Second Mortgage Debentures, which fell due on July 1st, 1921, and were payable in American funds, amounted to \$358,157.70. Of





this amount \$24,236.93 was charged against operations in the period from June 24th, 1921, to October 31st, 1922, leaving a balance at October 31st, 1922, of \$335,920.77. It is the intention to write off this exchange over a period of twenty years.

Mortgages, Bonds, Debentures, etc.

The total outstanding mortgages, bonds, debentures, etc., against the properties of the Companies at October 31st, 1922, amounted to \$10,691,000, as follows:

P.W.  
p.19-  
22

Ontario Power Company

1st Mortgage 5% Bonds due 1943.  
(authorized \$12,000,000) - outstanding \$9,092,000

Ontario Transmission Company

1st Mortgage 5% Bonds due 1945,  
(authorized \$2,000,000) - outstanding 1,599,000  
\$10,691,000

A full description of these outstanding obligations will be found on pages 19, 20, 21 and 22 of Price, Waterhouse & Co.'s report.

It should be noted that these bonds are being purchased out of sinking fund payments to the trustees, and during the fiscal year ending October 31, 1922, the following amounts were retired:

Ontario Power Company

1st Mortgage 5% Bonds, 1943 \$126,000.00

Ontario Transmission Company

1st Mortgage 5% Bonds, 1945 31,000.00

T o t a l . . . . . \$157,000.00

CGAD





Reserve for Renewals

The balance in the reserve for renewals account in respect of the combined properties of the Ontario Power

Company and the Ontario Transmission Company, Limited, at P.W. p.23

October 31st, 1922, was \$1,767,026.04 comprising the follow-

ing: CO&D  
1922  
Accts.

Balance August 1st, 1917 \$ 880,833.35

Reserves:

Year ending October 31, 1920	\$385,498.44	
Year ending October 31, 1921	385,814.69	
Year ending October 31, 1922	<u>335,777.71</u>	1,107,090.84
		<u>\$1,987,924.19</u>

LESS:Charges -

Year ending October 31, 1920	\$ 35,230.66	
Year ending October 31, 1921	118,308.46	
Year ending October 31, 1922	<u>67,359.03</u>	220,898.15
		<u>\$1,767,026.04</u>

(2) No provision was made for renewals for the years ending October 31st, 1918, and October 31st, 1919.

(3) It might be well to point out that interest has not been added to the balance at the credit of this fund as is the practice of the Commission in the case of other power undertakings. In the above statement it will be noted that there was a credit balance of \$880,833.35 in the account for renewals of plant and so forth as at August 1st, 1917. When the properties were acquired by the Commission this credit was made up largely of a transfer from the surplus account at that date. There is no information available as to what actually constituted the credit amount in this reserve at that date.

W.J.P.

39-44

REVENUE DEPARTMENT

(1911)

REVENUE DEPARTMENT

The balance in the reserve for renewals account in  
 respect of the electrical properties of the Ontario Power  
 Company and the Ontario Hydro-Electric Commission, limited, at  
 October 31st, 1911, was \$1,767,086.08 comprising the follow-

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as the original books of account are not available.

It has been stated that no appraisal of the properties has been made since the companies were acquired, but in order to determine rates to be used in the computation of the annual renewal provisions, the Engineering Department of the Commission made a re-classification of all the properties, exclusive of the extension known as the Third Pipe Line, as shown on the books at July 1st, 1919. In the case of the Third Pipe Line extension, the analysis of the Engineering Department is stated to be based on book figures as of October 31st, 1919.

W.J.F.  
39-44

The rates established by this re-classification and which were applied on a straight line basis are as follows:

- (1) 1.85% per annum on the properties, including lands, of the Ontario Power Company of Niagara Falls.
- (2) 2.85% per annum on the third pipe line exclusive of hydraulic and other equipment used in connection therewith.
- (3) 3% per annum on the properties including right-of-way of the Ontario Transmission Company, Limited.

These rates we understand have been applied on the approximate balance of the property account at the close of each year respectively, less certain deductions for intangible values.

It is understood that it is the practice of the Commission to spend sufficient money on maintenance account

PROPERTY FOR ENCLOSURE TO

(48)

as the original basis of assessment and valuation.

It has been stated that no approval of the pro-

posed has been made since the companies were notified,

and in order to determine what to be used in the assessment

of the annual renewal provisions, the Engineering Department

of the Commission made a re-evaluation of all the pro-

posed, including of the extension known as the third type

line, as shown on the plan of July 1st, 1911. In the case

of the third type line extension, the analysis of the

Engineering Department is stated to be based on both types

W.L.P.  
10-11

COPY

The rates established by this re-evaluation

and which were applied on a straight line basis are as

follows:

(1) 1.60¢ per annum on the properties, including  
lands, of the Ontario Power Company of Niagara  
Falls.

(2) 2.60¢ per annum on the third type line extension  
of hydraulic and other equipment used in the  
section therewith.

(3) 2.5¢ per annum on the properties including rights-  
of-way of the Ontario Transmission Company,  
Limited.

These rates are suggested and have been applied to the

properties owned by the property owners of the class of

and have respectively, have certain limitations for installation

values.

It is understood that it is the practice of the

Commission to give sufficient notice of proposed changes



each year to keep each and every portion of the system in a condition to operate in accordance with the requirements of economical production, which, it is stated, is considered to be about 75 per cent. as good as its original new condition. On this basis, our Consulting Engineer has expressed the following opinion as to the adequacy of the renewal reserve at October 31st, 1922:

"The balance sheet of the combined properties at October 31st, 1922, shows assets of approximately \$31,000,000 which includes about nine or ten millions of dollars of intangibles. It is a question whether these intangible values should be considered as depreciating and subject to renewal account, and if so to what extent. Considering all factors the amount of depreciable capital to be covered by a renewal account is probably of the order of six million or seven million dollars after making allowance for the portion provided for by maintenance account as above mentioned. As the plant has been in operation for nearly twenty years, it would appear that the total amount in the reserve account, which now stands at approximately one and three-quarters millions of dollars on the books, is smaller than it should be. Further, it should be borne in mind that no information is available regarding the composition of the initial provision for the fund and that the book value of the whole renewals account apparently does not represent actual funds available for renewals or extensions," as the moneys that have been set aside for renewals have "been called upon for the retirement of bonds to the extent of over \$700,000."

WJP.  
39-44

Should a substantial amount be required for renewals it will be necessary to provide such funds by issuing new bonds, or by some other means.

WJP.  
p.40  
-44

RECEIVED

(2)

There have been no changes in the system in a  
 condition as reported in connection with the requirements of  
 financial position, which, it is stated, is consistent in  
 the light of the fact that the system has remained  
 on this basis, the financial position has remained the  
 following position as in the statement of the financial position

at October 31st, 1933:

The balance sheet of the financial position  
 at October 31st, 1933, shows assets of approximately  
 nearly \$21,000,000 which includes about nine of  
 ten million of dollars of liquid assets. It is  
 a position which is substantially liquid and  
 is considered as liquidating and subject to re-  
 versal at any time and at a short notice. The  
 liquid assets are the result of deposits  
 which are held by a Federal Reserve Bank  
 and are subject to the order of the holder of the  
 million dollars after making allowance for the  
 portion provided for by maintenance account as  
 above mentioned. As the plan has been in  
 operation for nearly twenty years, it would  
 appear that the total amount in the reserve  
 account, which now stands at approximately the  
 end of the reserve account of \$10,000,000, is  
 more, is smaller than it should be. Further,  
 it should be noted in view of the fact that the  
 is available regarding the operations of the  
 initial provision for the fund and that the  
 fund value at the whole reserve account  
 approximately does not represent actual funds  
 available for payment of obligations, as the  
 money that have been set aside for removal  
 have been called upon for the payment of  
 bonds to the extent of over \$700,000,000.

Should a substantial amount be required for removal  
 it will be necessary to provide such funds by issuing new  
 bonds, or by some other means.



Since the close of the fiscal year ending October 31st, 1922, the Commission has made a revision in the renewal rates, as follows:

- (1) The 1.85% per annum formerly used on the properties, including lands of the Ontario Power Company of Niagara Falls, has been reduced to 0.75% with interest at 4% per annum, to be effective from August 1st, 1917. H.E.P.C.
- (2) The 2.85% per annum formerly used as applying to the Third Pipe Line has been discontinued with the view that this property is to be maintained out of current maintenance charges. & CG&D
- (3) The 3% per annum formerly used on the properties including right-of-way of the Ontario Transmission Company, Limited, has been reduced to 1.25% with interest at the rate of 4% per annum, to be effective from August 1st, 1917. COPY

On this basis, the balance in the Renewals Account at October 31st, 1922, amounted to \$1,387,736.85, or \$379,289.19 less than the balance of \$1,767,026.04 before the revision was given effect to. The reduction was applied as follows:

Particulars

Applied to credit of Sinking Fund Reserve - Third Pipe Line	\$112,491.98	
Applied as a reduction of 1922 power costs	188,622.04	CG&D
Applied to credit of contingencies reserve	72,935.96	W.H.B.
Balance credited to surplus	<u>5,249.21</u>	
Total Reduction	<u>\$379,289.19</u>	

The balance of the Reserve at October 31st, 1922, after giving effect to the above revision comprises the following:





General Economics

(27)

Balance transferred from surplus  
August 1st, 1917 \$880,833.35

ADD:

Amount provided out of revenue to  
October 31st, 1922, on basis outlined  
above -

	<u>Ontario Power Company</u>	<u>Ontario Trans- mission Co.</u>	
1917	\$22,300.68	\$ 6,463.25	
1918	89,927.84	25,766.66	
1919	89,979.41	26,451.67	
1920	90,074.89	26,265.55	
1921	90,252.41	26,238.52	
1922	90,245.08	26,246.38	
	<u>\$472,780.31</u>	<u>\$137,432.55</u>	610,212.84

CG&D  
W.H.B.

ADD:

Interest at 4%	<u>42,301.92</u>	<u>12,272.65</u>	<u>54,574.57</u>
-------------------	------------------	------------------	------------------

Total	<u>\$515,082.23</u>	<u>\$149,705.18</u>	<u>\$1,545,620.76</u>
-------	---------------------	---------------------	-----------------------

LESS:

Charges against the reserve exclusive of those in connection with the Third Pipe Line . . . . .			<u>157,893.91</u>
---	--	--	-------------------

Balance, October 31, 1922 . .			<u>\$1,387,726.85</u>
-------------------------------	--	--	-----------------------

Our Consulting Engineer expressed the following  
opinion concerning the reduction of the renewal reserve:

"It is difficult to understand what advantage  
is to be expected from a further reduction in  
an already inadequate reserve for renewals,"

and in respect of the use of renewal funds for the retire-  
ment of bonds, he states as follows:

W.J.F.  
p.44

"It might be argued that the use of reserve  
for renewals to provide a fund for the retire-  
ment of outstanding bonds could be justified  
if it is the intention to scrap the plant of  
the Ontario Power Company, but in that case it  
would seem reasonable that provision should  
be made to set aside a fund from revenues  
sufficient to pay all obligations before the  
plant will have lost its earning power."





Sinking Fund Reserve

Up to October 31st, 1922, the company provided out of revenue and paid over to the Commission the following amounts for sinking funds, which includes \$112,481.62 transferred from the reserve for renewals to apply as sinking fund on the third pipe line, from the date that it went into operation:

In respect of -

\$8,000,000 4% 40-year debentures of the Commission (Provision for 1921 and 1922) .....	\$200,000.00
---	--------------

Cash Advances for the construction of the third pipe line (Provision from date of first operation) .....	228,964.86
--	------------

\$3,200,000 debenture issue of the Commission to retire the bonds of the company due July 1, 1921 (Provision from July 1, 1921) .....	32,000.00
---	-----------

ADD Interest at 4% per annum .....	\$460,964.86
	<u>16,584.06</u>

Total .....	<u>\$477,548.92</u>
-------------	---------------------

CHAD  
WRB.

And in addition have provided out of revenue sinking funds in the amount of \$11,309.95, not yet payable.

The following is a statement of the bases of sinking fund provisions:





Particulars	Principal Outstanding Oct.31,1922
In respect of the companies' obligations:	
First Mortgage 5% Sinking Fund Bonds 1943 - Annual payment of \$1.00 for each elec- trical horse-power sold and paid for in the previous calendar year .....	\$9,092,000.00
First Mortgage 5% Bonds 1945 - Annual payment of \$30,000 .....	1,599,000.00
Cash advances re Third Pipe Line - An annual payment sufficient at 4% interest to retire the obligation in thirty years .....	3,514,676.62
In respect of obligations of the Commission:	
Forty Year 4% Debentures 1957 - An annual payment sufficient with interest at 4% per annum to retire the bonds at maturity, the period covering thirty- seven years .....	8,000,000.00
Twenty year 6% Bonds 1941 - A payment of 1% of the principal per annum - equivalent to approximately a forty-one year basis ..	<u>3,220,000.00</u>
Total .....	<u>\$25,405,676.62</u>

PW  
p.26  
-27.  
  
CG&D  
1922  
Acts

A study of the operating account fails to show any direct provision from revenues for sinking fund to be used to retire bonds of the Ontario Power Company and the Ontario Transmission Company, and it would appear upon analysis that the funds used in retiring the bonds have, to a large extent .

WJP  
p.48

Expenditures

1941-1942  
1942-1943  
1943-1944

In respect of the expenditure of the Government

Three hundred and fifty thousand dollars -  
Annual payment of \$1.00 per acre  
Total expenditure \$1,500,000

\$1,500,000

Three hundred and fifty thousand dollars - Annual

\$1,500,000

Each acre of land is to be paid  
an annual payment of \$1.00  
in order to secure the obligation  
in thirty years

\$1,500,000

In respect of the expenditure of the Government

Three hundred and fifty thousand dollars - Annual  
Annual payment of \$1.00 per acre  
at 40 per cent to secure the obligation  
in thirty years

\$1,500,000

Three hundred and fifty thousand dollars - Annual  
at 40 per cent to secure the obligation  
in thirty years

\$1,500,000

\$1,500,000

A study of the expenditure of the Government

directly provided from revenues for the purpose of the study

within limits of the Government's capacity and the results

Thereafter, the Government, and it will appear from the results of the study

the results of the study, it is a study of the results of the study



(30)

been appropriated out of the reserve for renewals and that this reserve fund has in reality been depleted to the extent of about \$600,000.00 to the end of 1921, and about \$725,000.00 to the end of 1922.

It would seem to be preferable to show the requirements for the retirement of the bonds of the Ontario Power Company and of the Ontario Transmission Company as a direct operating charge, as is done in the case of the sinking fund provisions to retire the bonds of the Hydro-Electric Power Commission and to pay the cash advances for the construction of the third pipe line extension.

WJP.  
p.48.

Deposits for sinking fund purposes have been made with the Trustees of the first mortgage bond issues, since the date the companies were acquired by the Commission, as follows:

<u>Year</u>	<u>Power Company</u>	<u>Transmission Company</u>
1918	\$151,506	\$30,000
1919	147,441	30,000
1920	145,253	30,000
1921	155,057	30,000
1922	122,956	30,000

P.W.  
p.27  
WJP.  
p.47

The aggregate sums, respectively, which would be provided to the maturity of these issues, for their retirement on the above basis, of an annual provision of approximately \$150,000 by the Power Company and of \$30,000 by the Transmission Company, are given below together with the bonds outstanding October 31st, 1921:

1933

1. The first of these is the fact that the company has a large number of employees who are not paid by the company but by the government. This is a very important factor in the company's financial position and it is one of the reasons why the company is able to maintain its operations for so long.

It would seem to me that the only way to avoid this is to have a more comprehensive and detailed set of rules governing the use of the word "and" in legal documents.

the construction of the ship also was completed.

[illegible]

DATE	DESCRIPTION	AMOUNT	BALANCE
12-1	CASH	100.00	100.00
12-2	SALES	50.00	150.00
12-3	SALES	75.00	225.00
12-4	SALES	125.00	350.00
12-5	SALES	150.00	500.00

The separate bank, respectively, which would be provided to the majority of these leaders, for their exclusive use on the basis of an annual provision of approximately \$100,000 by the Power Company and of \$200,000 by the Trans-Atlantic Company, and given before together with the same was attached hereto as Exhibit A.



(31)

Particulars	Power Co.	Transmission Co.	
First Mortgage Bonds			
outstanding October 31, 1921	\$9,218,000	\$1,650,000	
The aggregate approximate sum on above basis which would be provided to maturity of bonds	3,150,000	690,000	P.W. p.27
Deficiency in provision for retirement of bonds through sinking funds, on above basis	\$6,068,000	\$940,000	
Number of sinking fund instalments to maturity of bonds	21	23	

The foregoing figures would, of course, be modified should the Trustees find it impracticable to adhere to the previous practice of purchasing bonds for retirement within the terms specified in the respective agreements. In that event the interest accretions from investment in other securities would be available in the hands of the Trustees for purposes of the sinking fund.

It should be mentioned in connection with the authorized forty year bond issue of \$2,000,000 of the Transmission Company that the sinking fund provision of \$30,000 per annum, exclusive of any interest accretions, would aggregate only \$1,200,000 over the life of the bonds.

The sinking funds, as outlined above, will be inadequate for the retirement of the bonds at maturity in the amount of approximately \$7,000,000, and a means of

142

\_\_\_\_\_

It was provided in writing at  
the above date which reads as follows:  
The following agreement was made  
between me and my wife, Mrs. J. L. Lyle,  
dated January 1960.

1. The following information is being furnished to you for your information only. It is not intended to be used for any other purpose.

Internal and external to reduce  
and to reduce of other

for the purpose of the sinking fund.

It should be mentioned in connection with the ascertained forty year term issue of \$1,000,000 of the United States Government that the sinking fund provision of \$50,000 per annum, exclusive of any interest accumulation, would amount to \$1,250,000 over the life of the bonds.

The winning team, an amateur group, will be  
presented the 25th anniversary of the birth of the  
the amount of approximately \$7,000,000, and a bonus of



financing this deficiency will require to be provided before the bonds become due.

The sinking fund in respect of the \$8,000,000 issue of the Commission is provided on the basis of thirty-seven years, the remaining life of the debentures, while that in respect of the \$3,200,000 issue of the Commission, is on approximately a forty-one year basis, whereas the bonds mature twenty years from date of issue. With reference to this latter issue the financing of the deficiency will require consideration before the maturity of the bonds.

### Reserve for Contingencies

A study of the accounts of the Ontario Power Company and the Ontario Transmission Company, indicates that the reserve for contingencies has not been provided on the same basis as for the other systems where a charge of approximately 25¢ per year per horse-power sold is made together with certain other provisions, but in this case it is apparently in the nature of a provision for outstanding claims or accrued liabilities with the exception of an amount of \$72,955.36 transferred from the renewal reserve as of October 31st, 1922. At October 31st, 1922, the amount at the credit of the reserve for contingencies was \$527,684.30 made up as follows:

WJF.  
p.49

Thereafter this delivery will continue to be provided

before the date herein set.

The amount here is twenty of the \$5,000.00

of the amount is provided on the basis of thirty-

three years, the remaining life of the property, which

that in respect of the \$5,000.00 term of the remaining

is an approximately a forty-one year term, whereas the term

which would have been set of term. With reference to

this latter term the amount of the delivery will not

be an amount before the maturity of the term.

**COPY**  
RECEIVED FOR DELIVERY

A copy of the contract of the entire term

company and the entire transmission company, including the

the entire for transmission has been provided on the

some basis as for the other system which is shown as

approximately 50% per year for transmission with a term

together with certain other provisions, 50% in this case

it is approximately in the nature of a provision for interest

the claim of interest limited with the provision of a

amount of \$5,000.00 provided from the present term

as at January 1st, 1912. At October 1st, 1912, the amount

of the credit of the entire for transmission was \$5,000.00

made up as follows:



In respect of estimated additional  
water rentals payable to the  
Queen Victoria Niagara Falls  
Park Commission ..... \$327,759.46

In respect of claim against J. J.  
Albright for sinking fund pay-  
ment ..... 87,575.85

CCAD  
WHB.

In respect of claim against Niagara,  
Lockport & Ontario Power Company . 29,413.05

Reserve for bad debts applying against  
amount owing by Department of  
Railways and Canals ..... 10,000.00

Balance transferred from renewal reserve  
available to meet future expenses of  
a contingent nature ..... 72,935.96

Total Reserve..... \$ 527,684.30

**COPY**

It will be noted that if the Commission is  
obligated to pay the amounts set aside for specific purposes  
as noted above, there will remain only \$72,935.96 to meet  
future contingencies of an unknown nature. While a second  
catastrophe such as the accident on April 20th, 1922, is  
not probable, the accident furnished a striking proof of  
the advantages there would be in having a reserve fund for  
contingencies to cover accidents, although it might be  
considered unreasonable to have a contingency fund of  
sufficient magnitude to cover the total cost of an acci-  
dent which might wreck a large portion of the plant. It  
would, therefore, seem wise to provide for some contingency  
fund in addition to that now set up on the books.

WJF.  
p.50

\*\*\*\*\*  
 84-937,7280 \*\*\*\*\* NO/CLASSIFIED 2001

\*\*\*\*\*

22.414.22 In regard to minor details discussed  
between a Soviet and American Agent.

KILPATRICK AND GORDON  
 12, 1941, 1942  
 received from the Department of  
 Justice for the United States

over the last few years. The Government has  
to ensure that the people are not  
in a state of confusion. The Government has  
to ensure that the people are not in a state of confusion.

00.000.780 \$ . . . . . ADVANCE INCOME

COPIES

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

collected in the mountains and valleys of western

Form of  $\text{H}_2\text{CO}_3$  and  $\text{HCO}_3^-$  in the atmosphere

There are no other persons named in the document.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

and available.

THE ABOVE INFORMATION WILL BE FURNISHED TO THE REQUESTING AGENCY

is also a good example of a simple machine.

to have identified a need at all, let alone a solution.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 10/14/97 BY 60322

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1950年10月1日 星期日 晴 10月1日 星期日 晴

...and the ...



Balance Sheet

The following is a summary of the assets and liabilities of the Ontario Power Company and the Ontario Transmission Company as at October 31st, 1922;

ASSETS

Plant, Real Estate, Transmission Lines, Distributing Stations and Rights, Franchises, Goodwill, etc. \$25,132,427.40

Third Pipe Line, including additional generating equipment ..... 3,514,676.62

Sundry Equipment ..... 42,819.86

\$28,689,922.88

COPY

LESS - and amount on Oct. 31, 1922

Capital Stock of the Ontario Transmission Company, Limited.. 1,000,000.00

Total Capital Assets ..... \$27,689,922.88

Materials and Supplies ..... 40,926.74

Current Assets - Accounts Receivable, Cash, etc. .... 755,941.06

Claim against J. J. Albright ..... 295,633.20

Deferred charges to future operations  
unamortized bond discount, American  
exchange and prepaid insurance ..... 1,286,265.42

Total Assets ..... \$30,066,389.31

10-11-1964

The following is a summary of the assets and liabilities of the company as of the date of the balance sheet, 10-11-1964.

ASSETS

Fixed Assets, including land, buildings, and equipment, less accumulated depreciation	1,000,000.00
Current Assets, including cash, accounts receivable, and inventory	500,000.00
<b>Total Assets</b>	<b>1,500,000.00</b>

COPY

10-11-1964

Capital Stock of the Company, \$1,000,000.00

Total Capital Stock	1,000,000.00
Reserves and Surplus, including undistributed earnings, less accumulated depreciation	500,000.00
Current Assets - accounts receivable, cash, etc.	100,000.00
Fixed Assets - land, buildings, and equipment, less accumulated depreciation	1,000,000.00
<b>Total Assets</b>	<b>1,500,000.00</b>



LIABILITIES

Capital Stock - Ontario Power Company		\$10,000,000.00
<u>Bonds and Mortgages:</u>		
1st Mortgage B's due Feb.1,1943, of the Ontario Power Company .....	\$9,092,000.00	
1st Mortgage B's due May 1,1943, of the Ontario Transmission Company, Limited .....	<u>1,599,000.00</u>	10,691,000.00
<u>Hydro-Electric Power Commission:</u>		
Cash advanced for construction of Third Pipe Line .....	3,514,676.62	
6%, 1941 Bonds issued by Commission for the purpose of retiring the 1921 issue of the Power Company, together with accrued interest thereon .....	3,267,856.16	
Accrued interest on \$8,000,000.00 Bonds issued by the Commission to cover the purchase price of the capital stock of the Power Company .....	80,000.00	
Amount owing on current account ..	<u>328,208.05</u>	7,191,040.83
Accounts payable and accrued charges including accrued interest on Power Company Bonds .....		186,172.60
Reserve set aside to cover claims made by the Queen Victoria Niagara Falls Park Commission, also for contingencies .....		527,684.30
Provision to cover accrued portion of sinking funds to October 31, 1922 .....		21,557.70
Reserve for Renewals .....		1,387,736.86
Surplus .....		<u>59,197.03</u>
<b>TOTAL -</b>		<u><u>\$50,066,589.31</u></u>

100

STATEMENT

\$10,000,000.00

Capital Stock - Ontario Power Company

Balance Sheet

For the year ended 31st March 1943, the Ontario Power Company Limited, as shown in the Balance Sheet, is as follows:

Capital Stock - Ontario Power Company Limited \$10,000,000.00

Notes to the Balance Sheet

The following notes are supplementary to the Balance Sheet and should be read in connection therewith:

1. The Capital Stock is shown at its nominal value of \$10,000,000.00. It is divided into 1,000,000 shares of \$10.00 each.

2. The Reserve for Depreciation is shown at \$1,000,000.00. It is provided for the depreciation of the fixed assets of the Company.

3. The Reserve for Contingencies is shown at \$500,000.00. It is provided for contingencies which may arise in the future.

4. The Reserve for Sinking Fund is shown at \$500,000.00. It is provided for the redemption of the Company's debentures.

5. The Reserve for General Purposes is shown at \$1,000,000.00. It is provided for general purposes of the Company.

6. The Reserve for Depreciation is shown at \$1,000,000.00. It is provided for the depreciation of the fixed assets of the Company.

7. The Reserve for Contingencies is shown at \$500,000.00. It is provided for contingencies which may arise in the future.

8. The Reserve for Sinking Fund is shown at \$500,000.00. It is provided for the redemption of the Company's debentures.

9. The Reserve for General Purposes is shown at \$1,000,000.00. It is provided for general purposes of the Company.

10. The Reserve for Depreciation is shown at \$1,000,000.00. It is provided for the depreciation of the fixed assets of the Company.



Results of Operation

The excess of revenue over expenses as shown by the books up to October 31st, 1922, amounted to \$59,197.03 after setting aside reserve for renewals, sinking funds and contingencies as previously outlined. It is impracticable to furnish operating accounts for each of the periods from August 1st, 1917, to October 31st, 1922, owing to the numerous adjustments made by the Commission and as the operating results are contingent upon the ultimate settlement of claims made by the company, and also standing against it at October 31st, 1922. However, as an illustration of the revenue received and the expenses in connection with operating the company, the following brief summary of the operating account for the fiscal year ending October 31st, 1922, is submitted:

Expenses

Operating and administrative expenses .....	\$1,403,010.48	
Provision for renewals .....	116,491.96	
Bond interest .....	746,907.66	
Portion of discount on bonds amortized ....	46,244.04	GA&D
Portion of American exchange amortized ....	17,907.84	1922
Interest on cash advances re Third Pipe Line	196,743.86	Accts.
Other interest .....	42,279.90	
Provision for sinking funds .....	195,264.36	
Provision for interest on \$8,000,000.00 bonds		
of the Commission .....	525,076.42	
<b>Total Expenses .....</b>	<b>\$5,092,926.52</b>	

which were met by the following revenues:-





From sundry customers .....	\$1,357,119.80	
From St. Catharines and other municipalities in that district .....	78,290.21	004D
Thorold System .....	20,905.67	1922
Miscellaneous Revenue, including profit on bonds redeemed .....	16,799.35	Accts.

\$1,473,115.03

Revenue from Niagara System representing the difference between revenue received from other sources and total expenses as above .....	<u>1,619,811.49</u>
---	---------------------

Total Revenue \$3,092,926.52

From the above it will be noted that the company is being operated on a cost basis, and that the Niagara System is bearing all expenses of such operation except those not by revenue arising from other sources.

The following table shows the revenue from power sales separated as between undertakings of the Commission and outside interests for the various periods of operation between August 1st, 1917, and October 31st, 1922. The figures shown in this statement and the ones following, relating to operating expenses are subject to adjustment in respect to the revision in the renewal reserve made by the Commission subsequent to the close of the fiscal year ending October 31st, 1922.

[illegible]

From the above it will be noted that the amount  
is being reported on a cash basis, and that the  
system in handling all matters of cash reporting cannot  
there not be revenue arising from other sources.  
The following table shows the revenue from given  
sales reported on various subdivisions of the Commission  
and outside interests for the various periods of operation  
between March 1st, 1917, and October 31st, 1918. The  
figures shown in this statement are the same following  
relating to operating expenses and subject to adjustment  
in respect to the variation in the normal revenue made by  
the Commission subsequent to the close of the fiscal year  
ending October 31st, 1918.



Table of Annual Revenues

P.W.35

C66D

1922

Accts.

Particulars	15 months ending Oct.31,1918	1919	Year ending October 31, 1920 1921 1922			
Niagara System	\$1,022,611	\$ 893,814	\$1,112,818	\$1,621,420	\$1,807,730	
Sundry Hydro Undertakings	93,315	64,091	69,749	90,984	99,196	
Outside Interests	1,636,154	1,240,516	1,318,055	1,295,430	1,357,120	
Total Revenue	\$2,752,080	\$2,198,421	\$2,500,622	\$3,007,804	\$3,264,046	

The revenue per horse-power from the various classes of customers and the various revenues for each classification of horse-power is as follows:

Revenue per Horse-power

	Fiscal year ending October 31st, 1918 1919 1920 1921 1922				
Power sold to H.E.P.C.	\$9.15	\$9.36	\$9.72	\$11.55	\$17.55
Power sold to private Cos.	12.82	12.25	13.97	14.33	12.57
Power sold for export	12.70	12.60	12.97	12.76	12.84
Average	11.00	10.88	11.55	12.30	15.17

WJF.  
p.51.

The following is a comparison of the average revenue per horse-power billed with the total cost per horse-power billed for each of the above years:

Average revenue per horse-power billed	\$11.00	\$10.88	\$11.55	\$12.30	\$15.17
Average cost per horse-power billed	10.99	10.21	11.58	12.48	15.10





The following statement, showing the detailed costs per horse-power billed, illustrates in what respects and to what extents the operating costs and fixed charges have increased:

Detailed Costs per Horse-power Billed

	Fiscal year ending October 31				
	1918	1919	1920	1921	1922
Power purchased	\$2.68	\$1.35	\$ .57	\$2.33	\$3.17
Operating Costs	1.07	1.33	1.35	1.27	1.45
Maintenance	.36	.59	.72	.67	.89
Overhead & General Expense	.77	.89	.73	.57	.69
Interest, Discount and Exchange	5.58	5.66	6.44	6.17	6.25
Reserve Accounts	.36	.39	1.77	1.47	2.65
<b>T o t a l -</b>	<b>\$10.99</b>	<b>\$10.21</b>	<b>\$11.58</b>	<b>\$12.40</b>	<b>\$15.10</b>

Dividends paid by the Ontario Power Company

Dividends paid by the Ontario Power Company together with interest for the twenty-seven months ending October 31st, 1922, on the \$8,000,000 debenture issue of the Commission, aggregated \$1,748,651.19 as shown below:

Dividends paid in periods ending:

October 31st, 1918	.....	\$400,000.00	
1919	.....	254,780.55	
1920	.....	<u>365,794.21</u>	\$1,020,574.77

Interest for 15 months ending

October 31st, 1921, on \$8,000,000		400,000.00	
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Interest for 12 months, ending

October 31st, 1922, on \$8,000,000 including American exchange charges		<u>328,076.42</u>	
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**T o t a l -** \$1,748,651.19

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This amount has been used by the Commission to meet interest charges on the \$8,000,000, 4%, 40-year debentures issued by it in payment of the capital stock of the Ontario Power Company, with the exception of \$395.35 paid as dividends to the minority stockholders of the company during the years 1918, 1919 and 1920. Stock formerly owned by the minority stockholders has now been acquired by the Commission.

### Power Purchased

The following table shows the power purchased by the Ontario Power Company during the period from August 1st, 1917, to October 31st, 1921:

Particulars	15 months ending Oct. 31, 1918	Year ending October 31,			
		1919	1920	1921	
<b>Toronto Power Company</b>					
Output of one machine	\$267,760	\$132,802	\$125,073	\$216,450	
Cost of power furnished under Power					
Controller's orders	895,661	140,503	-	-	P.W.
Additional Power	-	-	-	42,455	p.86
	\$663,421	\$273,305	\$125,073	\$258,905	
<b>Canadian Niagara Power Company -</b>					
8942 h.p. at \$16.00	-	-	-	160,960	
8217 h.p. at \$16.20	-	-	-	133,109	
Exchange	-	-	-	16,317	
<b>T o t a l</b>	<b>\$663,421</b>	<b>\$273,305</b>	<b>\$125,073</b>	<b>\$569,291</b>	

### Expenditures due to Accident

The expenditures covering repairs to power house in the year ending October 31st, 1922, in connection with the 66AD 1922 accident which occurred on April 20th, 1922, amounted to Accts \$97,000.00 and of this amount \$64,000.00 has been charged against the renewal reserve, and the balance of \$33,000.00 has been charged into operations in this year.

This amount has been used by the Government to

The following table shows the gross income of the various companies during the period from 1937 to 1941.

[illegible]Available at: <http://www.civilis.org>

The representative reported negative in 1947 and in 1948. In the year ending October 31, 1949, in connection with the 1949-1950 season which occurred in April 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958 and 1959, the representative reported negative. The annual average, and the balance of 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 262



General Economics

(41)

TAXESCity of Niagara Falls

Previous to the purchase the Company had, by an agreement with the City of Niagara Falls, a fixed taxation of \$16,000 a year for a period of ten years. The agreement terminated in 1916 and the City then proceeded to increase the assessment. The Commission acquired the Company in 1917 and paid taxes on the increased assessment. The Company strongly objected to the assessment in each of the years 1918, 1919 and 1920 and the matter was discussed with the Government. No action was taken, however, so the taxes for these years were paid in accordance with the bills submitted. In 1921 the Company refused to pay the tax bill for that year and appealed the assessment of \$2,771,000. Before the matter reached the Appellate Division, an agreement was entered into whereby the Company agreed to pay the sum of \$98,657.42 for the 1921 taxes, thus effecting a saving of \$9,207.90, the difference between \$107,865.32--the amount of the original bill--and the sum actually paid.

Ev.  
2662  
2734

The last mentioned agreement forms part of a Special Act passed May 4th, 1922, (12-15 Geo.V, Chap.120) ratifying and confirming by-law No.1076 of the Corporation of the City of Niagara Falls. The by-law referred to was for the purpose of approving an agreement made between the City of Niagara Falls, the Company and the Commission.

Power  
Comm  
Act  
1922  
p.338

1248

2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686

[illegible]1994  
1995  
1996[illegible]



whereby the assessment on the plant was fixed for a period of ten years from January 1st, 1922, at \$2,500,000, (the assessment in 1917) and the maximum rate thereon at 30 mills on the dollar. This assessment is for all purposes, inclusive of taxation for school purposes, business or other general or special municipal taxation but does not affect local improvement rates or taxes, imposed or levied upon the said properties.

Ev.  
2041Township of Stamford

The Company is subject to taxation in the Township of Stamford also, as the headworks, pipe lines, the transformer station and part of the power station lie within the boundaries of the township. In 1903 an agreement between the Company and the township was entered into, fixing the assessment for a twenty-one year period at \$100,000. The Company contended that this was the assessment for all purposes, but this view was not upheld by the Privy Council who finally adjudicated upon the matter.

Ev.  
2662  
2663Mr. Pope  
Mr. Little-  
John.

As a result of this decision the township was at liberty to place a much higher assessment on the Company's works for the purpose of school taxation. Full advantage was taken of the privilege so that in 1913 the assessment had reached \$1,300,000. Since the Commission acquired the Company the taxes imposed have been disputed each year but eventually paid. In 1919 the taxes paid by the Company

[illegible]

Abstract 30-16603

[illegible]

1. The above information was obtained from the records of the Federal Bureau of Investigation, Department of Justice, and is being furnished to you for your information.



were as follows:

General Taxes	\$1,320.00	
School " "	<u>6,646.59</u>	\$ 7,966.59
In 1922:		
General Taxes	\$ 2,580.00	
School " "	<u>11,737.59</u>	\$14,317.59.

The period for the fixed assessment of \$100,000 expires in 1924. A memorandum on the file of the Commission in noting the taxes paid for 1919, states that after 1924 the taxes will be increased to the extent of approximately \$17,000 annually.

The question of a fixed taxation after the expiration of the above mentioned agreement in 1924 has been discussed by the Company and the Township and it is expected that the matter will soon be satisfactorily settled and confirmed by Statute as in the case of the City of Niagara Falls.

Economic Effect of the Accident  
on April 20th, 1922

As stated on page 6, (Hist. Sk.) of this report an accident occurred on April 20th, 1922, which resulted in the destruction of units Nos. 15 and 16 and considerable damage by water to a number of other units, causing a very large temporary reduction in the capacity of the plant. Mr. Walter J. Francis in his report on the Ontario Power Company includes "A Study of the Economic Effect of the Accident on April 20th, 1922, at the Plant of The Ontario Power Company of Niagara Falls," commencing on page 64 of the report.

was as follows:

General James	11,500.00
"	4,000.00
	\$ 7,500.00

TO 1951:

General James	\$ 7,500.00
"	11,500.00
	\$ 19,000.00

The period for the fixed investment of \$100,000

expired in 1951. A determination was made by the Commission

in 1951 that the fixed investment of \$100,000 was not

the same will be determined in the amount of approximately

\$17,000 annually.

The question of a fixed investment after the ex-

piration of the fixed investment agreement in 1951 has been

discussed by the Commission and the Board and it is expected

that the matter will soon be satisfactorily settled and con-

cluded by the Board as in the case of the City of Niagara Falls.

Statement of the Board

AS AT THE 1951 MEETING

As stated on page 6, (this B.R.) of this report as

submitted herewith in April 1951, which resulted in the

rejection of the offer of \$100,000 in 1951 and the subsequent

by letter to a number of other offers, which were a very large

percentage reduction in the amount of the plans. Mr. Walker

is present in his report on the Ontario Power Company in-

cluded a study of the Niagara effect of the accident on

April 1951, 1951, at the Plant of the Ontario Power Company

at Niagara Falls, a commission was made at the time.



In this Study Mr. Francis has used four cases as follows:

- Case No.1. Assume the damaged plant to be replaced with the minimum amount of machinery which would produce the same output as before the accident.
- Case No.2. Assume the damaged plant to be replaced by one unit of somewhat larger capacity than one of the destroyed units, to make the plant of the same capacity as before.
- Case No.3. Assume the damaged plant to be replaced by two units of identical capacity with those destroyed.
- Case No.4. Assume that neither of the damaged units would be replaced and that the third pipe line would be adapted to serve the remaining fourteen units, amortising the cost of the unproductive portion of the third pipe line extension during its estimated useful life of thirty years.

The four cases are considered in great detail in the report, and in summing up the result of the Study, Mr. Francis states:

"From the above outline it will appear that the estimated cost of the accident is determinate within certain limits only, depending upon the viewpoint taken. It seems reasonable to assume that the limits of cost are between \$50,000 and \$650,000. Based on the actual procedure now being followed, and assuming that the new unit will practically restore the former output of the plant, and charging the whole of the carrying charges on the unproductive capital against the accident up to the time of the replacement of the damaged plant, it would be fair to place the total cost of the accident at about \$300,000 in round figures."

Financial Statement

(-4-)

In this study Mr. Francis has used four cases

as follows:

Case No. 1. - Shows the changed plan as he explained with the various cases of machinery which would produce the same output as before the accident.

Case No. 2. - Shows the changed plan as he explained with the various cases of machinery which would produce the same output as before the accident.

Case No. 3. - Shows the changed plan as he explained with the various cases of machinery which would produce the same output as before the accident.

Case No. 4. - Shows the changed plan as he explained with the various cases of machinery which would produce the same output as before the accident.

The four cases are summarized in great detail in

the report, and in summary on the back of the study, Mr.

Francis states:

"From the above outline it will appear that the estimated cost of the accident is determined within certain limits only, depending upon the various factors. It is estimated that the total cost of the accident is between \$80,000 and \$100,000. Based on the actual procedure now being followed, and assuming that the new plan will eventually produce the same output as the old plan, and that the cost of the machinery changes on the replacement of the equipment will be the same as the cost of the old equipment, it would be fair to place the total cost of the accident at about \$80,000 in round figures."



GENERAL RELATIONS

Mr. J. A. McAndrew, K.C., has prepared a memorandum entitled "The Purchase and Operation of the Ontario Power Company of Niagara Falls from the Legal Standpoint." The memorandum deals with the subject in great detail and the following information is largely based on or quoted from it. Additional information has also been introduced.

Relations with Government

The Commission was authorized by 7 Geo.V, C.20, S.3 (now Section 8(g) of the Power Commission Act) to

"acquire by purchase or otherwise on any terms and hold shares in any incorporated company carrying on the business of developing, supplying or transmitting electrical power or energy; and in connection with any such acquisition enter into any covenant or covenants, agreement or agreements and pay for any such shares either in cash or bonds, debentures or other securities of the Commission, and guarantee, or covenant, or agree for or in respect of the payment or performance of any bonds, debentures, securities, contracts or obligations of any company shares in which are so acquired, or of any company shares in which are held by any company in which shares are so acquired."

This amendment of the Act was enacted specially for the purpose of acquiring control of the Ontario Power Company - a company incorporated by special Act of the

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Dr. J. A. Macdonald, F.R.S., has prepared a  
newspaper entitled "The Journal of the  
Galactic Survey Society of London" from the paper  
"The Journal". The newspaper deals with the subject in  
great detail and all following information is given.  
Based on the report from Dr. Macdonald's researches and  
also from other sources.

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This consisted of the four new members appointed  
for the purpose of receiving control of the District from  
January - a meeting inaugurated by special act of the



(46)

Dominion Parliament. In pursuance of the power conferred upon the Commission by this amending Act of 1917, it entered into an agreement for the purchase of all the outstanding shares of the Ontario Power Company. The properties of the Ontario Power Company and of its subsidiary, the Ontario Transmission Company, were at the time encumbered by mortgages to secure bond issues of the two companies to the amount of \$14,450,000. In addition to the purchase of these shares, the agreement entered into by the Commission provided for the guarantee by the Province of payment of the bonded indebtedness of the Companies as and when the same fall due. The Province was a party to and executed this agreement of purchase. The consideration for the purchase of the shares or for practically the equity in the properties of the Company, provided for by the agreement, was approximately \$8,000,000, payable in bonds of the Commission guaranteed by the Province. The consideration was paid as provided.

In effect then the Commission acquired for \$8,000,000, which amount was paid in bonds of the Commission guaranteed by the Province as to the payment of principal and interest, the shares of a company having assets of the book value of \$10,000,000, after deducting outstanding bonds, other liabilities, and reserved. The outstanding bonds of the Company in the amount of \$14,450,000 are payable by the Company (The Commission) and the payment thereof is guaranteed by the Province.

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by the Province.

by the Province.



Such a guarantee by a purchaser of control of a company is unusual and in this case the guarantee by the Province substantially enhanced the value of the bonds to the holders thereof.

The following is a list of guarantees given by the Province in respect of bond and other liabilities assumed by and bonds issued by the Commission in connection with the Ontario Power Company to March 31st, 1923:

Borrowings from the Bank of Montreal in connection with construction of third pipe line	\$1,200,000	
Forty-year 4% debentures of the Commission given in purchase of the Capital Stock of the Ontario Power Company - due 1st August, 1957	8,000,000	
Twenty-year 6% debentures (due in 1941) issued by the Commission for the purpose of retiring debentures of the Ontario Power Company which matured in 1921	3,200,000	File 307a S-1.
First Mortgage Bonds of the Ontario Power Company, due 1st February, 1943	9,092,000	
First Mortgage 5% Bonds of the Ontario Transmission Company, Limited, due 1st May, 1945	1,599,000	
	<u>\$23,091,000</u>	

#### Relations with the Commission

The Commission named as purchaser in the agreement owns and controls the capital stock of the Power Company, and by virtue of such ownership has transferred fifty shares of stock to seven members or officers of the Commission to qualify them as directors of the company.

CONFIDENTIAL - SECURITY INFORMATION

(43)

Each a guarantee by a purchaser of security of

a security is essential and in this sense the guarantee by

the Treasury is essential and in this sense the guarantee by

banks to the holders thereof.

The following is a list of guarantees given

by the Treasury in support of bank and other liabilities

amounting to and bonds issued by the Treasury in connection

with the Federal Reserve Bank, in March 1933, 1934:

Guarantees from the Treasury in connection with the Federal Reserve Bank, in March 1933, 1934:

Guarantees of the Treasury in connection with the Federal Reserve Bank, in March 1933, 1934:

\$1,000,000

COPY

Guarantees of the Treasury in connection with the Federal Reserve Bank, in March 1933, 1934:

\$1,000,000

Guarantees of the Treasury in connection with the Federal Reserve Bank, in March 1933, 1934:

\$1,000,000

Guarantees of the Treasury in connection with the Federal Reserve Bank, in March 1933, 1934:

\$1,000,000

\$1,000,000

RELATIONS WITH THE PRESIDENT

The Committee sought to ascertain in the summer of

1933 and 1934 the official policy of the Treasury Department, and

to obtain all such information as was available from the Treasury

Department in connection with the activities of the Committee in 1933

and in connection with the summer of 1934.



In the event of default of performance of its agreement with the vendors, the Province as guarantor would become liable to the bondholders since they have guaranteed, as a party to the agreement, the debentures issued by the Commission and the performance of the agreement.

With the purchase of the company and the acquisition of the (share) stock, the Commission, in order to comply with the by-laws of the company, transferred fifty shares of stock to members and officials of the Commission, who thereupon were elected directors of the company, and the Board of Directors thus elected appointed the Chairman of the Commission President of the company. **COPY** The Board of Directors, amongst other things, under sub-section 17, Act of Incorporation of Company, are authorized to make by-laws for the management and disposition of the stock, property, business and affairs of the company, not inconsistent with the laws of Canada and to appoint all officers, servants and artificers and prescribe their respective duties. The directors may also, from time to time, make by-laws not contrary to law or to the special Act, and, amongst other things, decide the number of directors, their term of service, the amount of their stock qualification and their remuneration, if any.

In the Power Commission Act no express authority is given to the Commission for the transfer by it for any purpose, of shares acquired by it. The right to acquire shares, however, would appear necessarily to involve the right

In the event of default of performance of the agree-  
ment with the parties, the contract is deemed to be  
null and void, and the parties shall be held harmless, as a  
party to the agreement, the defendant named by the parties  
and the performance of the agreement.

With the purchase of the company and the acquisition  
of the (left) side, the defendant is held to comply with  
the terms of the company, including the right to state  
to the court and officials of the company, and the court is directed  
that it shall support the plaintiff of the defendant's interests  
of the company. The court is directed, should there be any  
other agreement, it is the responsibility of the company, and  
the court is directed to give effect to the plaintiff and defendant  
of the court, property, business and affairs of the company,  
and to maintain with the law of the state and to maintain all  
rights, interests and obligations and preserve their respective

COPY

rights. The plaintiff may also, from time to time, make any  
law and equity to be in the special act, and, accordingly  
other things, being the matter of the plaintiff, their term of  
service, the amount of their stock qualification and their  
responsibilities, is any.

In the event of default of the plaintiff's obligations  
is given to the defendant for the plaintiff is to be any  
purpose, or other matter to be, the court is directed  
that, however, such agreement, the court is directed to  
necessarily as involve the plaintiff



to exercise all the rights and powers of shareholders given by the Act of Incorporation of the Company, including the right to transfer and dispose of shares as the holder of the shares, namely the Commission, deems expedient. Thus, while no express authority was given it would appear that the transfer made by the Commission of fifty shares to each of seven individuals was necessary and in the rightful exercise of the duties and powers of the Commission.

These individuals upon being registered as shareholders upon the books of the Company and the issue to them of certificates, become not only prima facie but actual owners of stock absolutely in their own right and were so qualified to be elected and act as directors of the Company. Were this not so all the acts of the Board of Directors since August 1, 1917, would be ultra vires and the corporate existence of the company would be at an end, and all the shares would be worthless.

Although by the transfer the seven directors each holds absolutely in his own right fifty shares, there appears to be no reason to expect that any will transfer his holdings for his own private advantage. In the past when it has been necessary or expedient to change the personnel of the Board of Directors, the shares held by the retiring director have in each case been transferred to and held by the director who has taken his place.

The affairs of the Company, after the acquisition of its shares by the Commission, appear to have been conducted





in the manner usual with such corporations, meetings of the Board were held and the Minutes thereof recorded. Sir Adam Beck, Chairman of the Commission, was from time to time appointed President; the two other members of the Commission, First and Second Vice-President, respectively; Mr. Gaby, Chief Engineer of the Commission, as Engineer, and Mr. Pope, Secretary of the Commission, as Secretary of the Company. Other directors of the Company, who were also officials of the Commission, were appointed as officers of the Company, acting as directors. The following extracts are from Minute Book No. 2 of the Company:

COPY

"On motion Mr. W. W. Pope's salary to be paid by the Ontario Power Company of Niagara Falls was fixed at \$2,000 per annum to take effect October 1st, 1917."

"On motion Mr. F. A. Gaby's salary to be paid by the Ontario Power Company of Niagara Falls was fixed at \$2,400 per annum, to take effect October 1st, 1917." (Meeting of Directors, October 17th, 1917)

"Moved by Mr. Lucas, seconded by Col. McNaught, that the salary of the President be increased by the sum of six thousand dollars per annum, such increase to date from the first day of August, 1917, the date on which the control of the Ontario Power Company of Niagara Falls passed into the hands of the Hydro-Electric Power Commission of Ontario." (Meeting of Directors, June 26, 1918)

"Upon motion duly made and seconded the salary to be paid to the 1st and 2nd Vice-President was fixed at \$2,000 per annum each, the same to take effect from the 14th day of January, 1920, being the date upon which the annual General Meeting was held. Also that \$500 of the annual salary paid to W. G. Pierdon is to be charged to the Ontario Power Company but this does not increase the present salary paid to him as Chief Accountant of the Hydro-Electric Power Commission of Ontario." (Meeting of Directors, June 29th, 1920)





The Minutes of the meetings at which these resolutions were adopted by the Directors "were taken as read and approved" at the Annual General Meeting of shareholders held subsequent to the several meetings of Directors, but there does not appear to have been any formal ratification or adoption of the action of the Directors in passing the motions. Messrs. MacInnes and Gilmour appear to be the only Directors for whom no provision was made for payment by The Ontario Power Company.

In accordance with the general intention of the Power Commission Act, it would appear to be quite proper and expedient that the cost of the affairs of the Power Company should be charged to the Company.

The Ontario Power Company is an undertaking of the Commission, the administration of its affairs and operation are part of the duties of the Commission and its officers. In view of this, salaries and remuneration for the service of the members and officers of the Commission in connection with the Company, in exactly the same manner as in all other undertakings of the Commission, must be such as are fixed or warranted by the Act, under which the Commission is created and exists and its members and officers are appointed.

A perusal and consideration of the motions passed at the meeting of the Directors leads to the conclusion that the members of the Commission considered the remuneration paid to them and the Chief Engineer and the Secretary of the Com-

The Minister of the Interior at which these  
provisions were adopted by the Director of the  
Board and approved at the annual meeting of the  
Board held separately in the winter months of 1947-48.  
The Board have not agreed to have their own separate  
policy of adoption of the action of the Director in making  
the capital, financial, technical and other matters in the  
only instance in which an official was sent to represent  
by the Ontario Power Company.

In accordance with the general intention of the  
Board, it would appear to be quite proper and  
advisable that the cost of the Ontario Power Company  
should be charged to the Company.

The Ontario Power Company is an undertaking of  
the Government, the establishment of the service and operation  
and part of the service of the Government and the service  
in view of the service and operation of the service  
of the service and operation of the service in connection  
with the Company, in exactly the same manner as in all other  
undertakings of the Government, must be such as are fixed  
or warranted by the fact, which the Commission is required  
and exists and the service and operation are approved.

A proposal and recommendation of the service  
at the meeting of the Director in the winter months of 1947-48  
the members of the Commission considered the Commission's  
in fact and the chief engineer and the Director of the Board



mission was inadequate and must be increased, the increase to date back to certain periods, and that to make the increase, an effective way was to provide salaries to these as officers of the Power Company. The motion relating to the salary of the President provided that "the salary of the President be increased by the sum of six thousand dollars per annum." As prior to this the President was not paid a salary, the increase can only refer to the salary paid him under the provisions of the Power Commission Act.

The motion referring to the salary of W. G. Pierdon provides that \$500 of the salary paid him as Accountant of the Commission shall be charged the Ontario Power Company. In connection with the salaries of the 1st and 2nd Vice-Presidents, the motions are so arranged as to provide that the salary authorized is to be paid to them. In the case of Messrs. Pope and Gaby the salaries to be paid by the Ontario Power Company were fixed at \$2,000 and \$2,400, respectively, and without more specific explanation this is open to the interpretation that these amounts form part of the salaries paid them in accordance with the Power Commission Act and on the same basis as in the case of Mr. Pierdon.

There is no provision in the Statutes or Orders-in-Council for payment to the Chairman and other members and officers of the Commission of any amount beyond the sums mentioned for their services in connection with the works and





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undertakings of the Commission. The Commission was created and the members were appointed by the Lieutenant-Governor in Council as provided by the Power Commission Act. Unless and until the Act is amended, the Chairman and other members of the Commission are not entitled to receive, and there is no warrant or authority for the payment to them of any amounts in excess of those mentioned in the Power Commission Act for their services as members of the Commission.

Their services as President and Vice-Presidents of the Ontario Power Company are in connection with an undertaking controlled, operated and carried on by the Commission and thus are services as members of the Commission within and covered by the Power Commission Act, which governs the remuneration to be paid for such services. The payment to the Chairman of \$6,000 and to each of the other members of the Commission of \$2,000 annually out of the moneys of or charged to the Ontario Power Company in addition to the remuneration to them provided by the Power Commission Act, was unjustified and improper.

It has been maintained by members and officials of the Commission that the acquisition of the Ontario Power Company greatly increased their duties and that consequently their salaries should be increased. Their views were not unnatural for additional work and increased responsibility is usually rewarded with greater remuneration. The acquisition of the Ontario Power Company, however, was only one

(10)

... of the Commission. The Commission was created  
and the members were appointed by the President of the  
in 1901 as provided by the Power Commission Act. When  
and after the law is enacted, the Chairman and other members  
of the Commission are not entitled to receive, and there is  
no reward or salary for the services of any member  
in excess of those mentioned in the Power Commission Act for  
their services as members of the Commission.  
The services of the Chairman and Vice-Chairman  
of the Electric Power Company are in connection with an under-  
taking controlled, owned and carried on by the Commission  
and there are provided no salaries for the Chairman and  
other members of the Electric Power Company, which service the  
Commission as in and to each of the other members of  
the Commission of \$5,000 annually and of the salary of  
the Chairman of the Electric Power Company is limited to the  
Commission as then provided by the Power Commission Act,  
and authorized and approved.  
It has been maintained by members and officials  
of the Commission that the possession of the Electric Power  
Company greatly interests their duties and that maintenance  
their salaries should be increased. Their view was not  
advisable for authorized work and increased responsibility  
is usually rewarded with greater remuneration. The  
Commission of the Electric Power Company, however, has only one



of many factors contributing to the increase in duties, so the additional remuneration should have been secured by amendment of the Power Commission Act. Had this been done no reason could exist for the thought that the officials used their position as directors of the company to obtain increased remuneration without reference to the Legislature.

#### Relations with Municipalities

In connection with the acquisition and operation of the Ontario Power Company, mention has been made of the approval of municipal corporations having been obtained.

The following is an extract from the evidence given at the Hearing on January 9th, 1923:

Q.- Were the municipalities for which you acted as trustee, consulted as to whether or not you should buy the Ontario Power Company?

A.- There was a plebiscite for acquiring the development in the Niagara district in 1917.

SIR ADAM BECK: They voted on it.

MR. GABY: They voted on a plebiscite for acquiring generating plants at Niagara Falls.

Q.- But was there any specific submission to the municipalities for the purchase of the Ontario Power Company?

A.- I should say Yes, because Sir Adam discussed the matter at those various meetings with them on it.

Q.- But was it submitted in a formal way to them?

SIR ADAM BECK: I don't remember the details of what took place at that time.

104

of your Ontario registration is the subject of this letter. The additional remuneration should have been secured by the Ontario Power Commission. The Ontario Power Commission is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry.

REMARKS BY THE MINISTER

In connection with the investigation and the Ontario Power Commission, the Ontario Power Commission is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry.

COPY

at the meeting on January 22, 1933.

- 1- There was a discussion for acquiring the development in the Ontario district in 1931.
- 2- There was a discussion for acquiring the development in the Ontario district in 1931.

THE AGENT: They were in 1931.

MR. AGENT: They were in a position to acquire generating plants at Niagara Falls.

1- The Ontario Power Commission is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry.

2- I should say that, because the Ontario Power Commission is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry.

3- The Ontario Power Commission is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry.

4- The Ontario Power Commission is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry. It is the body which is responsible for the regulation of the Ontario power industry.



Q.- And when you say a plebiscite would that be a vote of the ratepayers in each municipality?

MR. GABY: Yes.

Q.- That was done as to the development of power at Niagara Falls?

A.- Some seventy municipalities voted.

Q.- Hadn't that at all reference to the Chippawa development?

SIR ADAM BECK: No, the general policy of generating or acquiring generating plants.

Q.- Was this plebiscite, or the question that was voted on, exactly the same to each of the seventy municipalities?

MR. GABY: Seventy-four, yes.

COMMISSIONER HARRIS: What date was that?

A.- January, 1917.

THE CHAIRMAN: That would be at the municipal elections in January, 1917?

A.- Yes.

SIR ADAM BECK: The municipalities were called together and those matters were generally discussed with them, and they passed resolutions, and so on, but I know it was thought that because of the amounts involved that it would be well to have an expression of public opinion.

THE CHAIRMAN: Mr. Pope, could you let us have a copy of that resolution that was voted on in those 74 municipalities in January, 1917, you will have it available?

MR. POPE: It is on the files, you have seen them all.

COMMISSIONER HARRIS: Did they put the matter up to the municipalities in such a way that they fully understood what they were assuming?

MR. POPE: Yes, I think so, either to generate or purchase enough power.

CONFIDENTIAL - SECURITY INFORMATION

(b)

1. The above information was obtained from a review of the records of the Department of Justice.

2. The above information was obtained from a review of the records of the Department of Justice.

3. The above information was obtained from a review of the records of the Department of Justice.

4. The above information was obtained from a review of the records of the Department of Justice.

5. The above information was obtained from a review of the records of the Department of Justice.

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12. The above information was obtained from a review of the records of the Department of Justice.

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14. The above information was obtained from a review of the records of the Department of Justice.

15. The above information was obtained from a review of the records of the Department of Justice.

16. The above information was obtained from a review of the records of the Department of Justice.

17. The above information was obtained from a review of the records of the Department of Justice.



COMMISSIONER HARRIS: You didn't tell them at the time that this would involve them in an expenditure probably of \$125,000,000 to \$150,000,000 did you?

MR. GABY: I am speaking of the plebiscite that was submitted.

SIR ADAM BECK: Have you heard of any of them complaining?

COMMISSIONER HARRIS: Not yet.

SIR ADAM BECK: Do you expect them to?

COMMISSIONER HARRIS: I wouldn't be surprised.

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2231  
2232

The following is an extract from a letter dated February 20th, 1923, from the Secretary of the Commission to the Secretary of this Commission:

COPY

"In reply to your letter of February 3rd re the Ontario Power Company, in which you ask whether the By-law #7739 is an example of the by-laws submitted to all of the 74 municipalities in January, 1917, I have had a considerable number of these examined and find that question (1), referred to in appendix 'C' City of Toronto, is the identical question submitted to the other municipalities and dealt with as part of their by-law."

Question (1) is as follows:-

"Are you in favor of having the Municipality develop or acquire through the Hydro-Electric Power Commission of Ontario, whatever works may be required for the supply of electric energy or power in addition to such electric power as is already obtained under the existing contract with the Hydro-Electric Power Commission of Ontario?"

Neither the purchase agreement nor the sections introduced into the Act state specifically to whom the property purchased belonged. It is not stated whether it belonged to the Commission as a general floating asset, or

General Session

(56)

QUESTIONS: The first part of the time that this would involve is an expenditure of \$115,000,000 to \$120,000,000 per year.

MR. TAYLOR: I am speaking of the expenditure that was submitted.

SIR ADAM SMITH: Have you heard of any of them?

QUESTIONS: Yes, yes.

SIR ADAM SMITH: Do you expect them to?

QUESTIONS: I wouldn't be surprised.

The following is an extract from a letter dated

February 20th, 1932, from the Secretary of the Commission to

the Secretary of this Commission:

COPY

"In reply to your letter of January 25th re the Hydro-Electric Commission, in which you ask whether the 15-law 1932 is an example of the 15-law submitted to all of the 15 municipalities in January, 1932, I have had a committee member of these municipalities and I am glad to say that it is in accordance with the 15-law. It is the identical question submitted to the other municipalities and their reply is that it is in accordance with the 15-law."

Question (1) is as follows:

"Are you in favor of having the Hydro-Electric Commission develop or acquire through the Hydro-Electric Commission or through the Hydro-Electric Commission the supply of electric energy as required for the supply of electric power in the State in addition to such electric power as is already obtained under the existing contract with the Hydro-Electric Power Commission of Ontario?"

Under the proposed agreement with the Commission

submitted into the State specifically to which the

property purchased belongs. It is not stated whether it

belongs to the Commission or a general electric power, or



(57)

whether it belonged specifically to the municipalities to whom power was supplied by the company. The Niagara System belongs to the municipalities, but as to the Ontario Power Company nothing was said about it.

The Ontario Power Company must be operated as a company separate and distinct from the Niagara System on account of the bonds outstanding in the hands of the public. In spite of this, for the two fiscal years ending October 31st, 1921, and October 31st, 1922, Messrs. Clarkson, Gordon & Dilworth have treated the company as works of the Commission, and have provided for sinking funds on the purchase price in anticipation of the Act being amended so as to deal with the company on a Commission basis. Mr. Clarkson takes the view, "that the Commission must have purchased it (the company) in trust for somebody, and that it would naturally follow that that was the Niagara System, and, therefore, the Niagara System would probably be the owner eventually of that undertaking when it is paid for. If a deficit was made in the operation of the company nobody was liable unless there was a distinct chain, indicating for a certainty that the Niagara System was the owner of that through the Commission."

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2098

Further in expectation of this change in the Act, the auditors have for the past two years distributed the cost of the operation of the company throughout the Niagara System, with a consequent increase in rates to the municipalities on that system.

CONFIDENTIAL - SECURITY INFORMATION

(07)

whether it is being operated in the manner in which it was designed to be operated. The Board of Directors of the company has been notified of the situation and has decided to take the necessary steps to ensure that the company is operating in the manner in which it was designed to be operated.

The Board of Directors of the company has decided to take the necessary steps to ensure that the company is operating in the manner in which it was designed to be operated.

The Board of Directors of the company has decided to take the necessary steps to ensure that the company is operating in the manner in which it was designed to be operated. The Board of Directors of the company has decided to take the necessary steps to ensure that the company is operating in the manner in which it was designed to be operated.

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The Board of Directors of the company has decided to take the necessary steps to ensure that the company is operating in the manner in which it was designed to be operated. The Board of Directors of the company has decided to take the necessary steps to ensure that the company is operating in the manner in which it was designed to be operated.

2000

The Board of Directors of the company has decided to take the necessary steps to ensure that the company is operating in the manner in which it was designed to be operated. The Board of Directors of the company has decided to take the necessary steps to ensure that the company is operating in the manner in which it was designed to be operated.



While the Ontario Niagara Development Act of 1917 has special reference to the construction and operation of the Queenston-Chippawa Development, it would appear that certain sections in this Act have a general bearing upon all works and undertakings by the Commission, and that sections contained therein definitely set out the relationship of the municipalities to all power developments in the vicinity of the Niagara River, which interpretation would of course include the Ontario Power Company.

Section 5 of the Ontario Niagara Development Act, 1917, reads as follows:

- COPY**
- (1) "Notwithstanding anything contained in any contract heretofore entered into between the Commission and any municipal corporation or corporations or in any general or special Act fixing the maximum price of power to municipal corporations at Niagara Falls, every municipal corporation which has heretofore entered into or which may hereafter enter into a contract for the supply of electrical or pneumatic power or energy by the Commission from the Niagara River, shall pay to the Commission a sum equal to the average cost per horse-power to the Commission of all the power supplied to the municipal corporations under contract with the Commission for the supply of power from Niagara Falls and the vicinity.
- (2) "In fixing the amount per horse-power so payable by a municipal corporation, the Commission shall take into account the amount payable per horse-power by the Commission to any company or individual operating works for the development of power from Niagara Falls and the vicinity, and the amount required for payment of interest on the sums expended by the Commission upon the construction and equipment of the works, and to form a sinking fund sufficient to provide for the repayment of such amounts and to provide renewals and such other charges as the Commission may deem necessary and proper.

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1955 has opened with a new spirit of optimism and confidence in the future of the world. It is a new spirit that is born of the knowledge that the world is now a more united and peaceful place than it has ever been before. It is a spirit that is born of the knowledge that the world is now a more united and peaceful place than it has ever been before.

Section 2 of the Public Works Development Act

1972, 1973, 1974, 1975

[illegible]

2. \* In listing the amount for future years as paid-  
-made by a financial institution, the Commission  
also shall state the amount for each year as paid-  
-made by the Commission to any  
entity or individual, including amounts for the  
fiscal year 1997, 1998, 1999, 2000, 2001, 2002, 2003,  
2004, 2005, and the amount received for payment in  
advance of the year included in the financial  
statement and payment of the  
year, and for a financial statement submitted to  
the Commission for the purpose of such payment and  
to provide financial and other data to the  
Commission and such necessary and proper.



(59)

- (3) "The cost to municipal corporations of the power supplied to them by the Commission from any source at Niagara Falls, or in the vicinity of the Niagara River shall be annually adjusted and apportioned by the Commission as provided by the Power Commission Act.

- (4) "The column No.3 in Schedule 'B' of the agreement dated the 4th day of May, 1908, and set out in Schedule 'A' of the Power Commission Amendment Act, 1909, is struck out and the following substituted therefor: Maximum Price of Power at Niagara Falls

'Maximum Price of Power at Niagara Falls'

"The average cost per horse-power to the Commission of power developed by the Commission or procured under contract with any corporation or individual developing power at Niagara Falls, to be annually adjusted and apportioned by the Commission as set out in Section 3 of The Ontario Niagara Development Act, 1917."

- (5) "Except as qualified or amended by this Act, all the terms of the said agreement of the 4th day of May, 1908, shall continue in force and apply as far as practicable in the same manner and to the same extent as if this Act had not been passed. 7 Geo.V, c.21, s.5."

Thus it will be observed that by sub-sections 1, 2 and 3 of Section 5, that notwithstanding anything contained in any contract before entered into by the Commission and any municipal corporation, that the municipalities are required to purchase power at cost for any power supplied to them from Niagara Falls and the vicinity. Sub-section 4 refers to and cancels column No.3 in Schedule "B" of the original agreement made with the municipalities, which provision read as follows:





"\$9.40 for power at 12,000 volts until 25,000 h.p. or more are taken, then \$9.00 for all, \$10.40 for power at 60,000 volts until 25,000 h.p. or more are taken, then \$10.00 for all. If power taken at higher voltage, price to be fixed by arbitration."

The reference at the end of sub-section 4 of Section 5 which is "Section 8 of the Ontario Niagara Development Act, 1917" is apparently incorrect and should be S Geo.V, C.14, S.14.

If there is any doubt as to the connection between the Niagara System and the Ontario Power Company it is very apparent that the Power Commission Act should be revised and amendments made thereto which will declare that the capital share stock of the Ontario Power Company shall be considered as "Works of the Commission" to be governed in entire accordance with the provisions of the Power Commission Act, and that the Ontario Power Company shall be considered as a definite part of the Niagara System.

#### Relations between Commission and Company prior to Purchase.

As stated on page 3 of this report, a contract was made between the Commission and the Ontario Power Company on March 19th, 1906. This contract covered the supply of power on a maximum amount of 100,000 horsepower to be taken in certain blocks as required. The rate for power delivered at 12,000 volts was \$9.40 per horsepower per annum up to 25,000 horsepower, and \$9.00 per horsepower per annum for all the power when the amount





reserved and held ready for delivery upon the order of the Commission totalled 25,000 horsepower or more. The contract was to expire in 1950.

Reasons given by the Commission  
for the Purchase

Mr. F. A. Gaby, Chief Engineer of the Commission, at the hearing on December 20th, 1922, gave certain reasons for the purchase of the Company. These reasons were fully discussed and appear to be:

1. The necessity for additional power in the Niagara District, it being thought that more continuous operation would result if the Commission controlled the company.
2. The acquisition of certain rights claimed to be held by the company covering the diversion of water on the Welland River. It was thought that these rights might interfere with the Queenston-Chippawa project.

Ev.  
2112

With reference to the second reason, according to Mr. Gaby the company had "the right to take the Niagara waters up the Welland, and they bought the necessary right-of-way for the purpose of constructing a canal to get a greater head and divert the water from the Welland River." ..... "They had the right to use it at the Falls or probably any other location." .... "The right-of-way is now owned by the Hydro-Electric Power Commission; they (the Ontario Power Company) bought six or seven hundred acres." .... "We believe the scheme we have is much better than the position they had."

Ev.  
2113.





The Chairman of the Commission in his evidence, when asked why the Commission purchased the company, replied:

"Oh, because it was thought desirable that we should get control of it. They claimed certain rights on the Chippawa, which we did not admit. They were paying rentals, and the Chippawa development was somewhat dependent on having control of the company.....

Ev.  
2205

"I mean the quantity of water that they were supposed to have the right to use was not specifically fixed in horse-power quantities as it was in the case of the Electrical Development and the Canadian Niagara. There the amount of power they could develop was specifically fixed at 100,000 and 120,000 respectively, but with this company apparently there was no quantity of power, or quantity of water specifically fixed in the agreement that they might use. Ev. 2206-7  
merely the capacity of three pipes, and if they had been used to full capacity inefficiently there would have been very little water for any other development, probably none."

The following extract is from the evidence of the Chairman of the Commission:

Q. How does the cost of power to you, when you were buying it from the Ontario Power Company, compare with the cost to you now that you own it, per horse-power?

A. Well, of course, the operating costs have enormously increased since we bought it. I don't know what it is now. I know we are meeting all our obligations out of plant. The cost of operation has gone up considerably, and our capital investment has been increased by three and a half million dollars temporarily, and it was never intended to operate it until (sic) we could use the water on the Chippawa.

Q. What were you going to do with it then?

A. With what?

Q. With the Ontario Power Company?

A. Well, we would use it in other places.





- Q. Use the water in other places?
- A. The material, generators and wheels, I think the generators were to be used to synchronize the load, and the wheels were to be used in other developments.
- Q. Were you practically then to close down at the present site of the Ontario Power Company?
- A. Not that I know of. These two units that we put in were put in on account of the war. They were to be discontinued.
- Q. But what you say now, did that apply to the others?
- A. I suppose, ultimately, some day they will do what they are doing on the other side, do away with them entirely.
- Q. Haven't you any specific time in mind when you say that?
- A. It depends on the demand for power. When it is economically proper to do so it will be done.
- Q. What will be done?
- A. The water will be used at a higher head.
- Q. That would be the Chippawa; have you got that in mind?
- A. Not the Chippawa. No way of getting a full head between Lakes Erie and Ontario, the full head.
- Q. That is the only place, Sir Adam, where you are getting it now?
- A. That is the only place where we are getting it now.
- Q. Well, what other places would you have in view?
- A. No one suggested that for the present development that we require to close them down.
- Q. No agreement has been arrived at?
- A. No, but a recommendation has been made. The War Department resident engineers have recommended a 44,000 second feet for the further diversion at Niagara.

CONFIDENTIAL - SECURITY INFORMATION

(S)

1. The major is being placed

2. The material, equipment and facilities, which  
the Government will be used to establish  
the unit, and the units will be used in  
their development.

3. The Government is also planning to  
establish a unit of the Government's own design.

4. The fact I know of. The Government is  
not in a position to do so at the moment.  
The Government is in a position to do so at the moment.

5. The fact you say now, did that apply to the  
situation?

6. I suppose, although, some day they will go  
into the Government, and they will go  
into the Government, and they will go  
into the Government.

7. The fact you say now, did that apply to the  
situation?

8. It is possible to do so at the moment. This is  
economically possible to do so it will be done.

9. The fact will be done

10. The fact will be done at a future date.

11. The fact will be done at a future date. This is  
economically possible to do so it will be done.

12. The fact will be done at a future date. This is  
economically possible to do so it will be done.

13. The fact will be done at a future date. This is  
economically possible to do so it will be done.

14. The fact will be done at a future date. This is  
economically possible to do so it will be done.

15. The fact will be done at a future date. This is  
economically possible to do so it will be done.

16. The fact will be done at a future date. This is  
economically possible to do so it will be done.

17. The fact will be done at a future date. This is  
economically possible to do so it will be done.

18. The fact will be done at a future date. This is  
economically possible to do so it will be done.  
The fact will be done at a future date. This is  
economically possible to do so it will be done.  
The fact will be done at a future date. This is  
economically possible to do so it will be done.



Q. But having regard to the present Treaty rights, nothing further, you might require to close down the Ontario Power Works, I will say in part, with the full development of the Chippawa?

A. It depends on how many generators you install.

Q. Will you have to close down any of the present generators operating?

A. No, not now, not with what we have got.

Q. Supposing you have nine generators installed at Queenston, will you be able to provide water under the present treaty for all those generators, and for the Ontario Power plant and other plants as well?

A. We cannot tell that until we have definite information and data of the actual capacity of the canal and the efficiency of it, which no one can estimate. I believe accurately, until we have tests made.

Q. I presume you have made some estimates?

A. We haven't any report that I know of any more than we had before.

Q. Would it be correct to say that you believe that under the present treaty rights, that is, 36,000 second feet, you could operate to the full capacity of the Queenston-Chippawa canal?

A. Now, Mr. Chairman, you are asking me for data and figures here that I am not carrying about in my head.....

Q. Well, then, you cannot say whether there is sufficient water under the present treaty to supply those three places?

A. How can I tell. I have my own ideas, but I don't know that they would be of value to you. You want something that is as nearly accurate and reliable as is possible.

Q. Let us have your ideas?

A. I haven't got any ideas other than I require for my own judgment in dealing with these matters. When I get the proper information I deal with it,

(40)

[illegible]

IT APPEARS THAT THE INFORMATION WAS OBTAINED FROM THE

Q Will you have a look down any of the passages?

*A day was made on time after the war, the old*

As well as  
the fact that  
the present treaty  
between the  
United States  
and the Soviet  
Union is a  
very important  
document in  
the history of  
the world.

1. The first of these is the fact that the Commission has not yet received any information from the Government of the United States regarding the activities of the Committee for the Liberation of the Americas (CLA) in the United States.

Identify each item and its answer: 1. 3

1. The Government has a duty to protect the public interest in the use of its resources.

It would be correct to say that you believe that under the present treaty, time is of the essence, and that you would not want to delay the signing of the treaty.

Send me  
and please give me 1-1000

1. Tell me what you know about the  
relationship between the two  
main groups of people

[illegible]

Q Now I am going to ask you another question. Did you ever see any other person who was wearing a dark jacket or coat, like the one you saw on the night of the murder?



with my colleagues, in the proper way. You are asking me matters here in a haphazard way, in a way that is perfectly ridiculous.

COMMISSIONER J. A. ROSS: You have developed the canal, Sir Adam, on the basis of your general ideas. They must be of some value?

A. We did.

THE CHAIRMAN: Why not give them to us?

COMMISSIONER J. A. ROSS: You don't mean to say you did not build that canal without knowing you would have enough water for it. I think your general ideas would be very valuable to us?

A. I am not going to give you all the ideas that I have got. I know we bought the Ontario Power Company for very very vital reasons. It was considered by the Government a very admirable purchase. I know I am not complimented on all things I do, but I was complimented by the Government, verbally, and by my co-Commissioners for having been able to purchase a large property on such reasonable terms, on easy terms of payment, and get control of that development.

The following are statements made by the Chairman of the Commission before the Committee on Water Power of the House of Representatives, in Washington, on April 15th, 1918:

"When we bought the Ontario Power Company one of the objects in buying it was that we could scrap the plant in ten, fifteen or twenty years, when water becomes still more valuable because of its scarcity, or because of curtailment in the use of it, and use the water more efficiently in connection with the new scheme that we have in hand."

P.48a

p.49

"We can take the ten or twelve thousand cubic feet per second of water now being used comparatively inefficiently in the Ontario Power Company plant, and use it in connection with our Queenston-Chippawa scheme, thus securing the advantage of the full head available between the two lakes."

P.48a

p.15

Special Agent

(88)

With my witnesses, in the proper way. The  
the matter in a more or less  
in a way that is perfectly satisfactory.

COMMISSIONER J. A. HOBBS: You have developed the  
case, Sir Adam, on the basis of your personal  
ideas. They must be of some value.

A. We did.

THE CHAIRMAN: Why not give them to me?

COMMISSIONER J. A. HOBBS: You don't mean to say  
you did not make this case without knowing  
you would have enough water for it. I think  
your general ideas would be very valuable to me.

A. I am not going to give you all the ideas that  
I have got. I want to keep the others for  
myself for very good reasons. It was  
suggested by the Government a very valuable  
contribution. I want to be well satisfied on all  
things. I am not well satisfied by the  
Government, verbally, and by my co-commissioners  
for having been able to produce a large number  
on such reasonable terms, on any terms of pay-  
ment, and for securing at such a development.

The following are statements made by the witnesses  
of the Commission before the Committee on Water Power of  
the House of Representatives, in testimony, on April 1910:

1910:

"When we began the investigation of the  
and of the objects in view it was found  
that there was a great deal of water  
power, that water power will work  
valuable service at its capacity, to produce  
at a cost of 10, and not 15  
and more efficiently in connection with the  
new system than we have in New York."

X-100  
X-101

"We can have the use of water power  
which cost not second of water now being  
used comparatively inefficiently in the Catskills  
these large plants, and can be in connection  
with the Government-owned system, thus  
securing the advantage of the full head water-  
fall between the two dams."

V.100  
V.101



(66)

Reasons given by the Commission  
for Building the Third Pipe Line

The following is an extract from the evidence of the Chairman of the Commission in connection with the above:

COMMISSIONER MARAIS: ...It was the Hydro idea that that third pipe line should be constructed, and it was to be constructed for the purpose of increasing the production of power from the Ontario Power Company.

SIR ADAM BUCK: Until the Chippawa was finished, to provide power at the time to the manufacturers, and during the war, and on the demand of the Power Controller--

Q. That that should be built?

A. No, that power should be produced.

Q. The Power Controller never made any demand that that should be built?

A. He did, personally. In conversation he said, 'All right, you put that in and we will see you through on it,' practically words to that effect, at least we understood it that way, - but in the meantime we have got to have more power, here is what I have got to have. That is what he said, and we were curtailing municipalities, turning off their street lighting, curtailing manufacturers, and the only thing to do was to rush this job through.....

At any rate, the Government and everyone else was convinced that it was our duty, and the proper thing to do, and we did it, that is all. It served us a good purpose in the end, and if the war had gone on it would have been doubly valuable.....

We know this much, the wood stave pipe line does give us a very large increase in capacity out of the generators in the main operation of the Ontario Power Company's building.

Q. Would you have constructed the third pipe line for that purpose without reference to the putting in of any further generators?

A. No, not that I know of.

Ev.  
2215

Ev.  
2217

(66)

Examination given by the Commission  
The following is an extract from the evidence

at the Commission of the Commission in connection with the  
above:

Q. Now, I am going to ask you a few questions.  
A. Yes, I am going to answer them as best I can.  
Q. Now, I am going to ask you a few questions.  
A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.  
A. Yes, I am going to answer them as best I can.  
Q. Now, I am going to ask you a few questions.  
A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.

A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.  
A. Yes, I am going to answer them as best I can.

COPY

Q. Now, I am going to ask you a few questions.

A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.

A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.

A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.

A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.

A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.

A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.

A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.

A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.

A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.

A. Yes, I am going to answer them as best I can.

Q. Now, I am going to ask you a few questions.



(67)

**Reasons given by the Commission  
for increase in Cost of Constructing  
Third Pipe Line over Estimated Cost**

As shown on page 19 of this report (Gen. Recs.) the total advances by the Commission at October 31st, 1922, for purposes of the third pipe line amounted to \$3,515,094.93 while the estimated cost was \$1,806,000.00, as shown by a Minute of the Commission dated December 20th, 1917.

Mr. Walter J. Francis in his report entitled "Description of Plant" shows certain comparisons between estimated and actual costs. A number of items selected from his report are given in the following table:

COPY

Items	Percentage of actual unit cost over estimated unit cost
Wood Stave Pipe	34%
Excavation for Pipe Line	193%
Steel for Distribution	102%
Penstock Concrete	103%
Power House Substructure	75%
Power House Superstructure	67%

The unit cost of Penstock Excavation was 172% less than the estimated unit cost, and among the items listed as "items not estimated" is one in the amount of \$240,039.74 for "Administration and Interest less Unclaimed Wages".

Our Consulting Engineer in his "Analysis of Cost" of the installation of the third pipe line, states as follows:

"I have studied the circumstances which led up to the construction of the addition, ultimately known as conduit No. 3 and units 15 and 16, and I have gone over the matter carefully with the engineers of the Hydro-Electric Power Commission, who have furnished me with the figures given in the tables.





"The addition as originally conceived involved only the use of the residual capacity of the fourteen installed units of the plant, said to be approximately 25,000 horse-power, susceptible of reclamation by reducing the hydraulic head losses in conduit No.1 and conduit No.2. Comprehensively, therefore, this project comprised the installation of a third wood-stave pipe line of comparatively small diameter leading from the available connection at the gate-house, and following along the surface contours as far as practicable down to a connection with No.2 surge tank. This plan would have relieved the abnormal draft on conduit No.1 and conduit No.2, thereby increasing the head on the turbines.

"While the above project was under investigation, it is stated that the load requirements for munition work became so urgent that the Hydro-Electric Power Commission suddenly decided to purchase two second-hand turbines from the Aluminum Company of America and also to buy two new generators for connection thereto. This decision resulted in the deletion of the factors which entered into the original intention of the addition, and the whole problem became one of quickly installing a water connection between the headworks and the new turbines with sufficient independent capacity therefor. This involved the building of a wood-stave conduit, and it was decided to adopt a pipe of the same diameter as the largest hitherto built, namely, 15'6". The engineers of the Hydro-Electric Power Commission say that they did not feel justified in advancing beyond the precedent of installing a pipe larger than 15'6" in diameter, because of the serious damage to Park property which would inevitably result, on account of the large quantity of water involved, if a failure were to occur.

"The use of pipe of this size eliminated the possibility of generally using the surface contours, as had been intended for the smaller one, and consequently a large yardage of excavation was involved. The engineers say, moreover, that there was no time for the making of surveys and borings or for the preparation of detailed plans, and all studies and estimates had to be made on the basis of such data as were available in the original files of the Ontario Power Company. The essential plans for construction and installation purposes had to be issued while the construction work was actually under way.





(69)

"The size and location of the new wood-stave pipe line, known as No.3, caused the Queen Victoria Niagara Falls Park Commissioners to require the backfilling of about three thousand lineal feet of the line. The magnitude of the pipe and its resultant inability to retain its circular form under heavy outside pressure made it necessary to place a concrete envelope around the section to be backfilled before the backfilling was placed.

"Under these circumstances it was not possible to determine the relative proportions of earth and rock excavation or the location of such obstructions as duct lines, water pipes and so forth, or for any of the detailed information concerned in the works for the surge tank and the addition to the power house building. The uncertainty in the matter of rock quantities also of necessity resulted in a similar uncertainty in concrete yardage.

"To save time, the approximate weights and dimensions for the steel plate work were figured from the old plans of the Ontario Power Company and tenders were called for on the basis of a flat rate per pound for material to be subsequently estimated and ordered."

At the hearing on April 5th, 1923, Mr. Gaby,

Mr. Ames and Mr. Trimble of the Commission gave evidence at great length covering the increase in the cost of this work over the estimate. The evidence shows that the increase in cost in their opinion was due principally to the following circumstances:

- (1) Change in and additions to the design after the original estimate was made;
- (2) Plans of certain parts of the work were not completed for months after the work was started;
- (3) The difficulty in getting material, such as steel;
- (4) Increase in cost of materials;
- (5) Increase in labor costs;

153

[illegible]

1. The first of these is the fact that the evidence is not sufficient to establish that the defendant was involved in the conspiracy. The evidence is not sufficient to establish that the defendant was involved in the conspiracy.

1. The above information was obtained from the files of the FBI, New York Office, and is being furnished to you for your information.

1992 年 4 月 10 日

THE ABOVE IS A SUMMARY OF THE INFORMATION RECEIVED FROM THE  
SOURCE DURING THE PERIOD OF THE INVESTIGATION. THE SOURCE  
STATED THAT HE HAD NO OTHER INFORMATION TO REPORT AT THIS  
TIME. THE SOURCE STATED THAT HE HAD NO OTHER INFORMATION  
TO REPORT AT THIS TIME. THE SOURCE STATED THAT HE HAD NO  
OTHER INFORMATION TO REPORT AT THIS TIME.

1. The first of these is the fact that the  
the United States is a free country.  
2. The second is the fact that the  
the United States is a free country.  
3. The third is the fact that the  
the United States is a free country.  
4. The fourth is the fact that the  
the United States is a free country.  
5. The fifth is the fact that the  
the United States is a free country.



- (6) Decrease in the efficiency of labor;
- (7) Shortage of labor;
- (8) Labor troubles;
- (9) Flu epidemic;
- (10) The objection of the men to work when the spray from the Falls was blowing in their direction;
- (11) The necessity for paying extra to the men while working under conditions outlined above;
- (12) Unforeseen cost of casing and backfilling the pipe line;
- (13) The moral effect upon them of the presence of militia and police.

To sum up the evidence it appears that the original plans were so changed that the actual cost was bound to exceed the estimated cost; that the work was carried out in advance of the plans, that labor and material costs rose during the progress of the work and that almost every other conceivable misfortune contributed to the increase in the cost.





## S U M M A R Y

In the foregoing sections of this report comment has been introduced from time to time to make the various statements clear. In addition to statements of fact obtained from the Auditors' and Consulting Engineer's reports a considerable amount of evidence has been quoted in connection with the statements made by the witnesses, who gave evidence in connection with this company, and it is believed that the evidence quoted fairly represents the statements so made. In order to direct attention to the matters on which the Commission may desire to give decision, hereunder is given a brief summary of the points which appear to require special consideration.

### Origin of Company - ("Historical" - p.1.)

The original company was incorporated by special act of the Dominion of Canada on June 23rd, 1887, with authorized capital of \$250,000.00. The authorized capital stock was increased at different times to a par value of \$15,000,000.00, only \$10,000,000.00 of which was outstanding at date of acquisition by the Commission.

### Right to Divert Water - ("Historical" - p.1.)

Various agreements were made with the Queen Victoria Niagara Falls Park Commission which were approved by Orders-in-Council, dated April 23rd, 1902, and August 7th, 1902. The

APPENDIX

In the following sections of this report

has been included from time to time in each of the

sections above. It should be pointed out that the

from the "Ladies" and "Gentlemen" groups in general

and many of the other who have been in contact with the

statements made by the witnesses, and have been in contact

with this group, and it is believed that the evidence

which supports the statements is good. In view of the

statements in the report, the Commission may desire to

give details, however, it does not seem to be

which appear to require special consideration.

Table of Contents - "Ladies" - (Page 1)

The following groups are included in the report and

of the Division of Labor on June 1944, 1944, with reference

total of 1944, 1944. The following table shows the

number of different lines in a box with 1944, 1944, 1944,

only 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944,

submitted by the Commission.

Table of Contents - "Gentlemen" - (Page 1)

Various agencies were made with the (see Division

Division of Labor, which was reported by Division in

Special, dated 1944, 1944, 1944, and 1944, 1944, 1944.



amount of water allowed the company is not clearly specified, but is stated to be that required to generate 180,000 horse-power.

The rights under the agreement made it possible for the franchise to extend from April 1st, 1900, to April 1st, 2010.

Companies affiliated with

The Ontario Power Company - ("Historical Sketch" - p.2)

1. The Ontario Transmission Company, Limited.
2. The Ontario Distributing Company.
3. The Falls Power Company.
4. The Niagara, Lockport & Ontario Power Company.

Commission enter into

Contract with the Company - ("Historical" - p.3)

The Commission entered into contract dated March 19th, 1900, with the company for the delivery of power at 12,000 volts at \$9.40 per horse-power per annum up to 25,000 horse-power, and \$9.00 per horse-power per annum for additional amounts up to a total maximum of 100,000 horse-power. The agreement stipulated that \$1.00 per horse-power additional charge would be made for power delivered at 60,000 volts. Contract remained in force until acquisition of the company by the Commission on August 1st, 1917.

Extent of Works - ("Physical" - p.7.)

The power plant is located on the Canadian side of the Niagara River in the immediate vicinity of the Horseshoe Falls and is served by headworks about a mile above the Falls from which water is conveyed to the power house by three conduits, approximately 6,500 feet in length with a total drop of

amount of water allowed the amount is not strictly controlled, but is stated to be about equal to the amount of water used.

Power.

The power plant is located on the right bank of the river.

The power plant is located on the right bank of the river.

1960, 1961.

General description of the power plant - (Historical records - p. 2)

1. The power plant is located on the right bank of the river.
2. The power plant is located on the right bank of the river.
3. The power plant is located on the right bank of the river.
4. The power plant is located on the right bank of the river.

General description of the power plant

General description of the power plant - (Historical records - p. 2)

The power plant is located on the right bank of the river.

1960, 1961, with the company for the delivery of power at 18,000

volts at 60.00 per kilowatt-hour and at 18,000 volts

at 18,000 volts per kilowatt-hour and at 18,000 volts

at 18,000 volts per kilowatt-hour and at 18,000 volts

at 18,000 volts per kilowatt-hour and at 18,000 volts

at 18,000 volts per kilowatt-hour and at 18,000 volts

at 18,000 volts per kilowatt-hour and at 18,000 volts

1960, 1961, 1962.

General description of the power plant - (Historical records - p. 2)

The power plant is located on the right bank of the river.

The power plant is located on the right bank of the river.

The power plant is located on the right bank of the river.

The power plant is located on the right bank of the river.

The power plant is located on the right bank of the river.



28 feet.

The original power house consisted of 14 units with a total rated capacity of 119,000 kilowatts. The additional units Nos. 15 and 16, installed by the Commission in connection with the third pipe line, gave an additional capacity of 28,000 kilowatts. The combined ordinary rating is 143,000 kilowatts, or about 191,000 horse-power at 80% power factor. Under the conditions obtaining since the accident which occurred on April 20th, 1922, the rated capacity has been reduced by about 32,000 horse-power.

Extent of Accident - ("Physical" - p.10)

On April 20th, 1922, generators Nos. 15 and 16 were destroyed and their capacity was lost. A certain amount of water available from the third pipe line is used for other machines.

Output of Plant - ("Physical" - p.10)

The records now show that the actual output of power with fourteen generators working is about 174,000 horse-power. The plant is stated to obtain about 15 horse-power from one cubic foot of water per second. On this assumption, it is estimated that with

- (a) 16 machines running, total water used would be 13,300 cubic feet per second.
- (b) conduits Nos. 1 and 2, and fourteen units running total water used is 10,700 cubic feet per second.
- (c) three conduits and fourteen units running total water used is 11,700 cubic feet per second.

With the gross head of about 215 feet, the overall efficiency of the plant is estimated to be 61%.

On April 1950, 1951, the record reflects that the amount of the  
 United States Government's contribution to the project was \$1,000,000.  
 The record also reflects that the amount of the contribution of the  
 Government of the United Kingdom was \$1,000,000. The record also  
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 the United States was \$1,000,000. The record also reflects that  
 the amount of the contribution of the Government of the United States  
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 contribution of the Government of the United States was \$1,000,000.

101g - "Instagram" - 10/10/11 to 10/11/11

[illegible]

with various countries which is about 175,000 birds-per-year.

[illegible]

[2] [1970-1971] [1970-1971]

Page 10 of 10

With the gross head of about 215 feet, the wheels

availability of the plant is estimated as 0.52.



Transformer and Distributing Stations - ("Physical" - p.12)

The main transformer and distributing station is located on the top of the hill about 500 feet on the crest of the cliff at the rear of the power house.

Transmission System - ("Physical" - p.12)

The transmission system owned by the company is shown by the map which forms the frontispiece of this report.

Purchase Price - ("General Economics" - p.13)

The Commission acquired all outstanding shares of the company of a total par value of \$10,000,000.00, the consideration being \$6,000,000.00 payable by 4% forty-year gold debentures of the Commission, guaranteed by the Province. The assets of the company as at August 1st, 1917, amounted to \$26,446,933.95 and the liabilities included a funded debt in the amount of \$14,480,000.00 being outstanding mortgage bonds, debentures, etc., responsibility for which was assumed by the Commission.

Investment in Capital Assets - ("General Economics" - p.17)

The books of the company were not turned over to the Commission as agreed, but in the audit report for the fiscal year ending October 31st, 1918, it would appear that an amount of \$10,304,113.07 was the value of rights, franchises, goodwill, etc., the balance being made up of investment in plant, real estate, transmission lines, distributing stations to the extent of \$14,747,599.49; \$971,284.55 representing discount on bonds capitalized and \$1,349,170.63 expended upon construction of the third pipe line. Without access to the books, it is impossible





to say just how much of the \$10,304,113.07 represented intangibles of no value. It would appear safe to assume that a value on contracts in force was included, and from the information now available, it would appear that these contracts are now being operated at a loss and any intangible value allocated to them prior to August 1st, 1917, would seem to have little or no value at the present time.

Construction of Third Pipe Line - ("General Economics" - p.18)

Based upon the report of the Chief Engineer, which stated that by expenditure of \$1,806,000.00, 50,000 additional horse-power could be obtained, the directors of the company approved of this work on December 20th, 1917.

The Commission obtained a loan in respect of this work in the amount of \$1,250,000.00 from the Bank of Montreal, secured by the guarantee of the Province, and first mortgage bonds of the company in the amount of \$1,400,000.00 were pledged to the bank as collateral security.

As at October 31st, 1922, the total advances by the Commission to the company for the purpose of the third pipe line amounted to \$3,514,676.62. Thus it will be seen that the cost exceeded the estimate by approximately \$1,700,000.00 which amount was taken from the general funds in the hands of the Commission, voted for specific purposes or received from other sources, and advanced to the Power Company.

to any time when it is not in the possession of the  
 of an agent. It would appear that the information was avail-  
 through the source was included, and from the information now avail-  
 able, it would appear that these documents are not being retained  
 at a time and any investigation into matters in this regard as  
 subject of the report, would seem to have failed to be taken as the  
 present time.

Investigation of this file - "General Information" - 10-1-68

Based upon the report of the Chief Engineer, which  
 stated that the equipment of 11,000,000.00, 10,000,000.00, 10,000,000.00  
 listed under the heading of the division of the company  
 received at this time on October 1968, 1968.  
 The Commission obtained a loan in respect of this  
 with in the amount of 11,000,000.00 from the Bank of Montreal,  
 secured by the mortgage of the premises, and this mortgage  
 made at the amount of 11,000,000.00 with a period  
 of the term as indicated.

On October 1968, 1968, the total amount of the  
 Commission to the company for the purpose of the third plan line  
 amounted to 11,000,000.00. There is still to be paid that the sum

included the balance of approximately 11,000,000.00 which  
 must be taken from the General Fund in the hands of the  
 Commission, used for specific purposes as received from other  
 sources, and returned to the Government.



Accounts Receivable - ("General Economics" - p. 19)

As at October 31st, 1922, a balance of \$333,110.42 was owing the Commission representing overdue accounts outstanding against various parties. Of this amount \$151,638.94 is against the Niagara, Lockport & Ontario Power Company representing the balance of certain bills standing in arrears. The remainder represents balances of certain other bills and unpaid American exchange charges which are in dispute.

The company has a claim against Mr. J. J. Albright in the amount of \$295,633.20 of which amount \$111,000.00 was awarded to the Commission by judgment of the Supreme Court and the balance is still under negotiation.

Discount on Bonds - ("General Economics" - p.21)

This charge to the extent of \$933,695.96 will be charged against future operations during the life of the bonds and debentures.

American Exchange - ("General Economics" - p.21)

Exchange in connection with the retirement of \$2,753,000.00 of Ontario Power Company, 6% Second Mortgage Debentures which fell due on July 1st, 1921, amounted to \$350,157.70. The balance as at October 31st, 1922, was \$333,920.77 which will be written off over a period of twenty years.

Outstanding Mortgages,Bonds, Debentures, etc. - ("General Economics" - p.22)

The total outstanding mortgages, bonds, debentures, etc., against the properties at October 31st, 1922, amounted to

1. General Information - (12)

2. Background - (12)

3. Summary of the Situation - (12)

4. Analysis of the Situation - (12)

5. Recommendations - (12)

6. Conclusion - (12)

7. References - (12)

8. Appendix - (12)

9. Notes - (12)

10. Comments - (12)

11. Summary - (12)

12. Conclusion - (12)

13. References - (12)

14. Appendix - (12)

15. Notes - (12)

16. Comments - (12)

17. Summary - (12)

18. Conclusion - (12)

19. References - (12)

20. Appendix - (12)

21. Notes - (12)

22. Comments - (12)

23. Summary - (12)

24. Conclusion - (12)

25. References - (12)

26. Appendix - (12)

27. Notes - (12)

28. Comments - (12)



\$10,691,000.00. These bonds are being purchased out of sinking fund payments to the trustees and during the year ending October 31st, 1922, \$157,000.00 worth were retired.

Reserve for Renewals - ("General Economics" p p.23)

The company made no provision for renewals for the years 1918 and 1919. Since that date up to October 31st, 1922, an amount of \$1,767,026.04 has been allocated to this fund, which included an amount of \$260,633.35 which was shown in the accounts of the company as a credit balance for renewals at the date of acquisition August 1st, 1917. There is no information available as to what actually constituted this credit, as the original books of account are not available. Our Consulting Engineer states that based upon the total assets of the company, amounting to approximately \$31,000,000.00, in which is included depreciable capital of probably \$6,000,000.00 or \$7,000,000.00, that having regard to the fact that the plant has been in operation for nearly twenty years, the total amount in reserve account is smaller than it should be. He states further that the book value of the renewal fund does not apparently represent actual funds available for renewals or extensions as the moneys that have been set aside for renewals have been called upon for the retirement of bonds to the extent of \$700,000.

Should a substantial amount be required for renewals, it will be necessary to provide such funds by issuing new bonds

These bonds are being purchased out of the following

There is a significant positive correlation between the number of years of education and the number of years of experience in the field of work.

11:1 1351 20,240,741, 4381, 1:11

1991, p. 100, fn. 10.

이 글은 2014년 12월 15일부터 16일까지 서울에서 열린 제1회 한국문화정책포럼에서 발표한 글이다.

1999-2000, 2000-2001, 2001-2002, 2002-2003, 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022, 2022-2023, 2023-2024, 2024-2025, 2025-2026, 2026-2027, 2027-2028, 2028-2029, 2029-2030, 2030-2031, 2031-2032, 2032-2033, 2033-2034, 2034-2035, 2035-2036, 2036-2037, 2037-2038, 2038-2039, 2039-2040, 2040-2041, 2041-2042, 2042-2043, 2043-2044, 2044-2045, 2045-2046, 2046-2047, 2047-2048, 2048-2049, 2049-2050, 2050-2051, 2051-2052, 2052-2053, 2053-2054, 2054-2055, 2055-2056, 2056-2057, 2057-2058, 2058-2059, 2059-2060, 2060-2061, 2061-2062, 2062-2063, 2063-2064, 2064-2065, 2065-2066, 2066-2067, 2067-2068, 2068-2069, 2069-2070, 2070-2071, 2071-2072, 2072-2073, 2073-2074, 2074-2075, 2075-2076, 2076-2077, 2077-2078, 2078-2079, 2079-2080, 2080-2081, 2081-2082, 2082-2083, 2083-2084, 2084-2085, 2085-2086, 2086-2087, 2087-2088, 2088-2089, 2089-2090, 2090-2091, 2091-2092, 2092-2093, 2093-2094, 2094-2095, 2095-2096, 2096-2097, 2097-2098, 2098-2099, 2099-2100, 2100-2101, 2101-2102, 2102-2103, 2103-2104, 2104-2105, 2105-2106, 2106-2107, 2107-2108, 2108-2109, 2109-2110, 2110-2111, 2111-2112, 2112-2113, 2113-2114, 2114-2115, 2115-2116, 2116-2117, 2117-2118, 2118-2119, 2119-2120, 2120-2121, 2121-2122, 2122-2123, 2123-2124, 2124-2125, 2125-2126, 2126-2127, 2127-2128, 2128-2129, 2129-2130, 2130-2131, 2131-2132, 2132-2133, 2133-2134, 2134-2135, 2135-2136, 2136-2137, 2137-2138, 2138-2139, 2139-2140, 2140-2141, 2141-2142, 2142-2143, 2143-2144, 2144-2145, 2145-2146, 2146-2147, 2147-2148, 2148-2149, 2149-2150, 2150-2151, 2151-2152, 2152-2153, 2153-2154, 2154-2155, 2155-2156, 2156-2157, 2157-2158, 2158-2159, 2159-2160, 2160-2161, 2161-2162, 2162-2163, 2163-2164, 2164-2165, 2165-2166, 2166-2167, 2167-2168, 2168-2169, 2169-2170, 2170-2171, 2171-2172, 2172-2173, 2173-2174, 2174-2175, 2175-2176, 2176-2177, 2177-2178, 2178-2179, 2179-2180, 2180-2181, 2181-2182, 2182-2183, 2183-2184, 2184-2185, 2185-2186, 2186-2187, 2187-2188, 2188-2189, 2189-2190, 2190-2191, 2191-2192, 2192-2193, 2193-2194, 2194-2195, 2195-2196, 2196-2197, 2197-2198, 2198-2199, 2199-2200, 2200-2201, 2201-2202, 2202-2203, 2203-2204, 2204-2205, 2205-2206, 2206-2207, 2207-2208, 2208-2209, 2209-2210, 2210-2211, 2211-2212, 2212-2213, 2213-2214, 2214-2215, 2215-2216, 2216-2217, 2217-2218, 2218-2219, 2219-2220, 2220-2221, 2221-2222, 2222-2223, 2223-2224, 2224-2225, 2225-2226, 2226-2227, 2227-2228, 2228-2229, 2229-2230, 2230-2231, 2231-2232, 2232-2233, 2233-2234, 2234-2235, 2235-2236, 2236-2237, 2237-2238, 2238-2239, 2239-2240, 2240-2241, 2241-2242, 2242-2243, 2243-2244, 2244-2245, 2245-2246, 2246-2247, 2247-2248, 2248-2249, 2249-2250, 2250-2251, 2251-2252, 2252-2253, 2253-2254, 2254-2255, 2255-2256, 2256-2257, 2257-2258, 2258-2259, 2259-2260, 2260-2261, 2261-2262, 2262-2263, 2263-2264, 2264-2265, 2265-2266, 2266-2267, 2267-2268, 2268-2269, 2269-2270, 2270-2271, 2271-2272, 2272-2273, 2273-2274, 2274-2275, 2275-2276, 2276-2277, 2277-2278, 2278-2279, 2279-2280, 2280-2281, 2281-2282, 2282-2283, 2283-2284, 2284-2285, 2285-2286, 2286-2287, 2287-2288, 2288-2289, 2289-2290, 2290-2291, 2291-2292, 2292-2293, 2293-2294, 2294-2295, 2295-2296, 2296-2297, 2297-2298, 2298-2299, 2299-2300, 2300-2301, 2301-2302, 2302-2303, 2303-2304, 2304-2305, 2305-2306, 2306-2307, 2307-2308, 2308-2309, 2309-2310, 2310-2311, 2311-2312, 2312-2313, 2313-2314, 2314-2315, 2315-2316, 2316-2317, 2317-2318, 2318-2319, 2319-2320, 2320-2321, 2321-2322, 2322-2323, 2323-2324, 2324-2325, 2325-2326, 2326-2327, 2327-2328, 2328-2329, 2329-2330, 2330-2331, 2331-2332, 2332-2333, 2333-2334, 2334-2335, 2335-2336, 2336-2337, 2337-2338, 2338-2339, 2339-2340, 2340-2341, 2341-2342, 2342-2343, 2343-2344, 2344-2345, 2345-2346, 2346-2347, 2347-2348, 2348-2349, 2349-2350, 2350-2351, 2351-2352, 2352-2353, 2353-2354, 2354-2355, 2355-2356, 2356-2357, 2357-2358, 2358-2359, 2359-2360, 2360-2361, 2361-2362, 2362-2363, 2363-2364, 2364-2365, 2365-2366, 2366-2367, 2367-2368, 2368-2369, 2369-2370, 2370-2371, 23

Source: Survey data of respondents in 1999 and 2000, 100%.

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Training cost was \$170000 and \$200000 per year for the first and second years, respectively.

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or some other means. In spite of the apparent inadequacy of the renewal reserve, the Commission, during the year 1921, made a further revision in the renewal rates which reduced the reserve above quoted by the amount of \$379,289.19, leaving a balance of only \$1,387,786.85. The reduction so made was applied. The reserve in future will be built up at a rate which is slower than the reduction above shown would at first indicate, in that the rates applicable to properties and lands of the Ontario Power Company have been revised from 1.85% to 0.75%. The rate of 2.85% formerly applying to the third pipe line has been entirely discontinued and the 3% per annum formerly used on properties, etc., of the Ontario Transmission Company have been reduced to 1.25%. The amount of the reduction was applied as a credit to sinking fund reserve on the third pipe line, a reduction of 1922 power costs, approximately \$73,000 was credited to contingencies and an amount of \$5,249.21 was credited to surplus account. Our Consulting Engineer in commenting upon this reduction stated as follows: "It is difficult to understand what advantage is to be expected from a further reduction in an already inadequate reserve for renewals." Mr. Francis further states: "It might be argued that the use of reserve for renewals to provide a fund for the retirement of outstanding bonds could be justified if it is the intention to scrap the plant of the Ontario Power Company, but in that case, it would seem reasonable that provision should be made to set aside a fund from revenues sufficient to pay all obligations before the plant will have lost its earning power."

of any other source. In light of the significant discrepancy of the  
 general source, the Commission, during the year 1971, made a  
 further review in the source's case which showed the source  
 stated that the source of STU-100-10, having a balance of  
 only \$1,000.00. The Commission is now in receipt of the  
 source in future will be built up as a source which is almost  
 that the Commission also would of that source, in that  
 the source applied to the Commission and asked for the source's name  
 company have been received from STU-100-10. The rate of 1.00  
 directly applied to the source since the source was not actively dis-  
 continued and the STU-100-10 source was not active, and  
 at the source's request, the source was not received in 1.00.  
 The amount of the reduction was applied as a credit to the source's  
 source on the first day of the source's 1971 source's name.  
 approximately \$1,000.00 was received in consideration and an amount  
 at \$1,000.00 was received in source's account. The Commission  
 Raytheon is continuing after this reduction source as follows:  
 "It is difficult to understand what situation is in the situation  
 from a source reduction is an already known source for  
 reduction." The source's source stated: "It might be argued that  
 the use of source the source is provided a form for the source's  
 of continuing source could be justified if it is the intention to  
 carry the point of the source's source, but in that case,  
 it would seem reasonable that source's source would be made to pay  
 raise a form from source's source to pay all source's source  
 the point will have been for source's source."



Sinking Fund Reserve - ("General Economics" - p.28)

A study of the operating accounts fails to show any direct provision from revenue for sinking fund to be used to retire bonds for the Ontario Power Company, and the Ontario Transmission Company, and it would appear that funds in the amount of \$772,213 used in retiring certain bond issues have to a large extent been appropriated out of the reserve for renewals and that this account has been depleted to the extent of \$725,000 at the end of 1922.

The total long term indebtedness of the company and the Commission in respect of the company, amounted to \$25,405,676.72 at October 31st, 1922, and in addition to this amount \$1,400,000.00 of the company's first mortgage bonds were pledged with the Bank of Montreal as collateral security for a loan of \$1,200,000.00 to the Commission. This amount is included in the \$3,514,676.62 of cash advances for the purposes of the third pipe line.

Deposits for sinking fund purposes have been made at the rate of \$30,000.00 per year from 1918 to 1922, in respect of first mortgage bond issues of the Transmission Company, and an annual provision of approximately \$150,000.00 has been





made in respect of bond issues outstanding against the Power Company.

The sinking funds available if continued on the same basis until maturity of the bonds will be inadequate for the retirement of the bonds at maturity in the amount of approximately \$7,000,000.00, and a means of financing this deficiency will require to be provided before the bonds become due.

Reserve for Contingencies - ("General Economics" - p.32)

The company has not provided a reserve for contingencies on the same basis as provided by the Commission for other systems, where a charge of approximately 25¢ per horse-power per year sold is made together with certain other provisions. As of October 31st, 1922, the amount at the credit of this reserve was \$527,684.30 which included, however, a provision for claims against the company, and if the company is obligated to pay the amount set aside for specific purposes there will remain only \$72,935.36 to meet future contingencies of an unknown nature. Our Consulting Engineer states that it would seem wise to provide for some contingency funds in addition to that now set up on the books.

It is noted that the information provided in the report is accurate and reliable.

Very truly yours,

The following information is contained in the report:

1. The information provided in the report is accurate and reliable.

2. The information provided in the report is accurate and reliable.

3. The information provided in the report is accurate and reliable.

4. The information provided in the report is accurate and reliable.

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The company has not provided a complete and accurate report.

5. The information provided in the report is accurate and reliable.

6. The information provided in the report is accurate and reliable.

7. The information provided in the report is accurate and reliable.

8. The information provided in the report is accurate and reliable.

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11. The information provided in the report is accurate and reliable.

12. The information provided in the report is accurate and reliable.

13. The information provided in the report is accurate and reliable.

14. The information provided in the report is accurate and reliable.

Very truly yours,



Results of Operation ("General Economics" -p.36)

As shown by the books of the Company at October 31st, 1922, revenue exceeded expenses in the amount of \$59,197.03 after setting aside reserve for renewals, sinking funds and contingencies on the basis and in the amounts as previously shown.

It is to be noted that the operating results are contingent upon the ultimate settlement of outstanding claims. The Company is now operating on a "cost" basis, the Niagara System bearing all expense of operation excepting that met by revenue arising from other sources. The books of the Company show that the expense for the year 1922 amounted to \$3,092,926.52, which amount is balanced by a total revenue in the same amount.

Revenues from Power Sold ("General Economics" -p.38)

Without taking into consideration the adjustment made in the renewal reserve subsequent to the close of the fiscal year ending October 31st, 1922, the total revenue from power sold increased from \$2,198,421 in 1919 to \$3,264,046 in 1922.

The revenue per horsepower from the various classes of customers and the various revenues for each classification per horsepower are as follows:





- (a) Power sold to Hydro-Electric Power Commission has increased from \$9.15 in 1918 to \$17.55 in 1922.
- (b) Power sold to private consumers has remained practically stationary, being at the rate of \$12.82 in 1918 and \$12.57 in 1922.
- (c) Power sold for export has also remained stationary being \$12.70 in 1918 and \$12.84 in 1922.

From the above it will be noted that with the acquisition of the Company by the Commission the power users on the Niagara System have had their cost of power increased almost 100 per cent., but due to outstanding contracts, power to private customers and for export purpose has not been increased.

Operating costs of producing power have increased from \$10.99 per horsepower in 1918 to \$15.10 in 1922, showing a net increase of approximately 50%.

Dividends paid by the  
Ontario Power Company ("General Economics" -p.39)

The amount of \$1,748,651.19 has been accumulated by the Company up to October 31, 1922, which was used to meet interest charges on the \$8,000,000 4% 40-year debentures. Of this sum, \$395.35 was paid as dividends to minority stockholders of the Company during the years 1918, 1919 and 1920.

Power Purchased ("General Economics" -p.40)

The Company has purchased power from the Toronto Power Company and the Canadian Niagara Power Company, in varying amounts, from 1918 to 1921. Power purchased from the

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(a) Power sold to Hydro-Québec in 1979 for \$17.00 in 1979.  
increased from \$0.10 to \$17.00 in 1979.

(b) Power sold to private customers has remained  
relatively stable, being at the rate of  
\$0.10 in 1979 and \$12.00 in 1979.

(c) Power sold for export has also remained relatively  
stable, being \$11.75 in 1979 and \$12.00 in 1979.

From the above it will be noted that the

operation of the company by the Government has been done  
on the basis of a cost basis and that the Government has  
always had the right to vary the rate of return.  
In private contracts and for export purposes the rate  
increased.

Operation of the company has been done on a  
cost basis. The Government in 1979 is \$12.00, which  
is a rate increase of approximately 50%.

Private sale of the  
company's power (estimated 1979-80)

The amount of \$1,744,444.44 has been estimated  
for the company as the company is 100% owned by the  
Government. The amount of \$1,744,444.44 is  
of this amount \$1,744,444.44 is estimated to be the  
amount of the company during the year 1979, 1979 and 1979.

Power generated (estimated 1979-80)

The company has provided power to the Government  
Power generated and the Canadian Electric Power Company, in 1979  
for 1979, 1979 and 1979. Power generated from the



Toronto Power Company cost the Company for fifteen months ending October 31, 1918, \$663,421, and in 1921 it had decreased for that year to \$258,905. Power from the Canadian Niagara Power Company was purchased at an average rate of \$17.00 per horsepower, the total paid in this respect being \$663,421 in 1918 and \$569,291 in 1921.

When the Third Pipe Line was in operation, during 1920, the amount of power purchased was greatly reduced, costing the Company a total amount from both sources of \$250,000 during that year.

Expenditures due to accident ("General Economics" -p.40)

Up to October 31, 1922, total expenditures made on account of the accident amounted to \$97,000, of which amount \$64,000 was charged against renewal reserve, and the balance, \$33,000, charged to operations during that year.

Taxes ("General Economics" -p.41)

The original company paid taxes in the amount of \$16,000 a year to the City of Niagara Falls up to and including the year 1916. On the acquisition of the company by the Commission, and due to the termination of the agreement with the City of Niagara Falls, the assessment was increased by the City, and after various negotiations an agreement was reached whereby the Company has agreed to pay taxes in the amount of \$98,657.42 for

[illegible]

\$250,000 during this year.

On the basis of the above information, the Board of Directors of the company has determined that the amount of the dividend should be \$97,000.00.

THE ORIGINAL COMPANY WAS FORMED IN THE SUMMER OF 1911, AND AT THAT TIME THE CAPITAL WAS \$100,000. THE COMPANY WAS ORGANIZED FOR THE PURPOSE OF DEVELOPING THE OIL AND GAS RESOURCES OF THE AREA, AND AT THAT TIME THE COMPANY WAS THE ONLY ONE OF ITS KIND IN THE AREA. THE COMPANY WAS ORGANIZED BY THE FOLLOWING INDIVIDUALS: [REDACTED] AND [REDACTED]. THE COMPANY WAS ORGANIZED FOR THE PURPOSE OF DEVELOPING THE OIL AND GAS RESOURCES OF THE AREA, AND AT THAT TIME THE COMPANY WAS THE ONLY ONE OF ITS KIND IN THE AREA. THE COMPANY WAS ORGANIZED BY THE FOLLOWING INDIVIDUALS: [REDACTED] AND [REDACTED].



the year 1921. The agreement reached stipulates that for a period of ten years from January 1st, 1922, the assessment shall be \$2,500,000 and the rate thereon thirty mills on the dollar.

The Company, previous to its acquisition by the Commission, paid taxes in varying amounts depending upon the assessments placed upon it by the Township of Stamford, being in 1918, \$1,300,000. In 1919 the taxes paid by the Company amounted to \$7,966.59, and in 1922, \$14,317.59. It is expected that a definite agreement regarding a fixed taxation will be arrived at in the near future.

#### Economic effect of the Accident

on April 23th, 1922 ("General Economics" -p.45)

After reviewing the whole situation, our Consulting Engineer estimates that \$300,000 would fairly represent the total cost of the accident to the Company.

#### GENERAL RELATIONS

##### Relations with Government ("General Relations" -p.45)

It would appear that the Province of Ontario as parties to the agreement of purchase, wherein they guarantee the bonds issued by the Commission in respect of purchase and also guarantee performance of the agreement by the Commission, are directly responsible for the whole undertaking





and have in effect assumed all the usual obligations of a purchaser. The Government have no direct control of the Company, the capital share stock of same being vested in the Commission who in turn has elected a board of directors from among its members and officials, in consequence of which they are in immediate control of the Company's operations, the Government having no direct voice in matters of administration. The Government's total liability to March 31st, 1923, in respect of the Company is in the amount of \$23,091,000.00.

Relations with the Commission ("General Relations" -p.47)

As noted above the Commission, while named as purchaser in the agreement of sale and now holding the legal position of owner of the Company, has of itself no assets on which recovery could be made in case of default by the Company.

The Commission as owner of the capital share stock of the Company elected members and officials of the Commission as directors of the Company and paid certain of these salaries. Their action as shareholders and directors of the Company appears to be quite legal and valid, but as members and officials of the Commission their action was unjustified and improper.

and have in effect received all the usual facilities of a  
business. The Government have in effect bought the  
Company, the capital stock of said being owned in  
the Government and in turn has elected a board of directors  
from among the members and officials, in accordance with  
which they are in immediate control of the Company's  
operations, the Government having no direct voice in matters  
of administration. The Government's total liability is  
about \$200,000, in respect of the Company in the  
amount of \$200,000.

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As noted above the Government, while aware of the fact that the Government is the owner of the land and now holding the land, has no intention of selling the land, but it is not possible to say that the Government is not in a position to sell the land at any time.

The Commission on account of the capital share 17222



Relations with Municipalities ("General Relations" -p.84)

The municipalities in the Niagara System approved of a blanket resolution on January 1st, 1917, which in effect approved of the Commission obtaining power by construction of new developments, acquisition of operating companies or purchase of power. To this extent then the municipalities have concurred in and are liable for the Ontario Power Company. On a broad interpretation of the Ontario Niagara Development Acts of 1916 and 1917, it would appear that the municipalities are required to pay the cost of power from whatever source it is supplied. This would appear to include the Ontario Power Company. On the bases named above it would appear that the municipalities, if supplied with power from the Ontario Power Company, must pay cost for same, but in order to avoid any misunderstanding in the matter, especially in the event of the Ontario Power Company ceasing to operate, the operations of the Company should be placed under the provisions of the Power Commission Act and the capital share stock thereof, owned by the Commission, declared as "Works" of the Commission under the Power Commission Act and the Ontario Power Company made part of the Niagara System.

[illegible]



Relations between the Commission and  
the Company prior to Purchase (Gen'l Relations -p.60)

It is to be noted that the original agreement entered into between the Commission and the Company called for the delivery of a maximum of 100,000 h.p. at a rate of \$9.00 per horsepower at 12,000 volts, up until the year 1950. As noted herein the Niagara System is now being charged on the basis of \$17.55 per horsepower, which on the basis of 100,000 h.p. per year represents a loss of \$855,000 a year to consumers in the Niagara System.

Reasons given by Commission  
for Purchase ("General Relations" -p.61)

COPY  
Several reasons were given by members and officials of the Commission, but it would appear that the real reason for purchasing the Company was to obtain control of the water diverted by the Company from the Niagara River, and other franchise rights granted to the Company. Having regard to the development of power under the Queenston-Chippawa scheme and the apparent necessity of other schemes of similar magnitude, it would appear that the Commission's desire to obtain control of the Company on this account was well founded.

Reasons given by Commission for  
building Third Pipe Line ("General Relations" -p.66)

It would appear that when the construction of this work was under consideration power demands in the district were greatly in excess of the supply, and the Commission

100-44215

(b)(1)

Relationship between the Commission and the National Security Council - (b)(1)

It is to be noted that the official agreement

entered into between the Commission and the National Security

for the delivery of a maximum of 100,000 lbs. of a rate

of \$0.00 per horsepower at 12,000 volts, as well as the year

1957. As stated above, the specific terms of the

agreement on the basis of \$17.50 per horsepower, which is

the basis of 100,000 lbs. per year represents a sum of

\$17,500 a year in payments to the Electric Power

Commission given by the Commission

for the year 1957 - (b)(1)

COPY

Several items were given by the Commission and

officials of the Commission, as it would appear that the

real reason for purchasing the Commission was to obtain control

of the water diverted by the Commission from the Electric Power

and other facilities rights granted to the Commission. Having

regard to the development of power under the Commission

Electric Power and the National Security Council, it would appear

of similar magnitude, it would appear that the Commission's

issue is still subject to the Commission's control.

was well founded.

Relationship between the Commission and the National Security

for the year 1957 - (b)(1)

It would appear that when the Commission of this

and the other facilities rights granted to the Commission

was finally in effect, it was subject to the Commission's



maintain that the Government considered it the duty of the Commission to supply additional power by whatever means were possible. It would appear that it was on the basis of shortage of power the Third Pipe Line construction was undertaken.

Comparison of Cost of Construction  
of Third Pipe Line with Estimated  
Cost of Same. ("Gen'l Relations" -p.67)

As noted, according to the minutes of the Commission dated December 20th, 1917, Mr. Gaby reported that 50,000 additional horsepower could be obtained by the expenditure of \$1,800,000. This work as of October 31, 1922, had actually cost \$3,515,094.93, representing an increase of almost 100 per cent. While the Commission's engineers give a great variety of reasons for such increase it would appear that little detailed study of the project was made before construction operations were commenced, such as would have been given to the problem by a contractor were he required to quote a lump sum tender for the work. Undoubtedly the conditions under which the work was carried out were far from ideal, but apart from unforeseen contingencies which arose, many of the items of expenditures should have been foreseen inasmuch as considerable work of this nature had previously been carried out in the same vicinity.

January

1941

...the Government considered it the duty of the  
 Commission to report additional facts by which it was  
 possible to make a more complete picture of the  
 situation. It was agreed that it was the duty of  
 the Commission to report the facts as they were  
 presented to it. The Commission has done this  
 in its report. It has not attempted to make  
 any conclusions or recommendations. It has only  
 reported the facts as they were presented to it.

As noted, according to the minutes of the Com-  
 mittee dated December 20th, 1941, Mr. E.A. Tamm reported that  
 \$9,000 additional revenues would be obtained by the im-  
 position of \$1,000,000. This was as at January 1st, 1941,  
 and actually was \$2,812,000.00, representing an increase  
 of almost 200 per cent. While the Government's explanation  
 gave a general picture of reasons for such increase it would  
 appear that little detailed study of the matter was made  
 before such a large increase was announced, and as  
 would have been given to the people by a statement that  
 no request for such a large sum would be made for the work. Un-  
 derstanding the necessity for such a large sum was obvious  
 and was the true ideal, but what was understood was  
 something which arose, many of the items of expenditures  
 should have been reviewed before an increase was made  
 and this would have been a very serious and in fact was



Conclusion

While not referred to specifically in the foregoing, there appears to be no formal agreement between the Commission and the Company with respect to the sale of power by the Company to the Commission. It would appear to be advisable that the operating relationship between the company and the Commission should be set forth so that a direct line of responsibility may be clearly defined and properly understood.

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**Summary**

While not referred to specifically in the letter, these aspects of the formal agreement between the Commission and the Company with respect to the sale of power to the Company to the Commission. It would appear to be sufficient that the agreement is between the Company and the Commission and it is not necessary to report this of responsibility and the Commission and the Company.

**COPY**













